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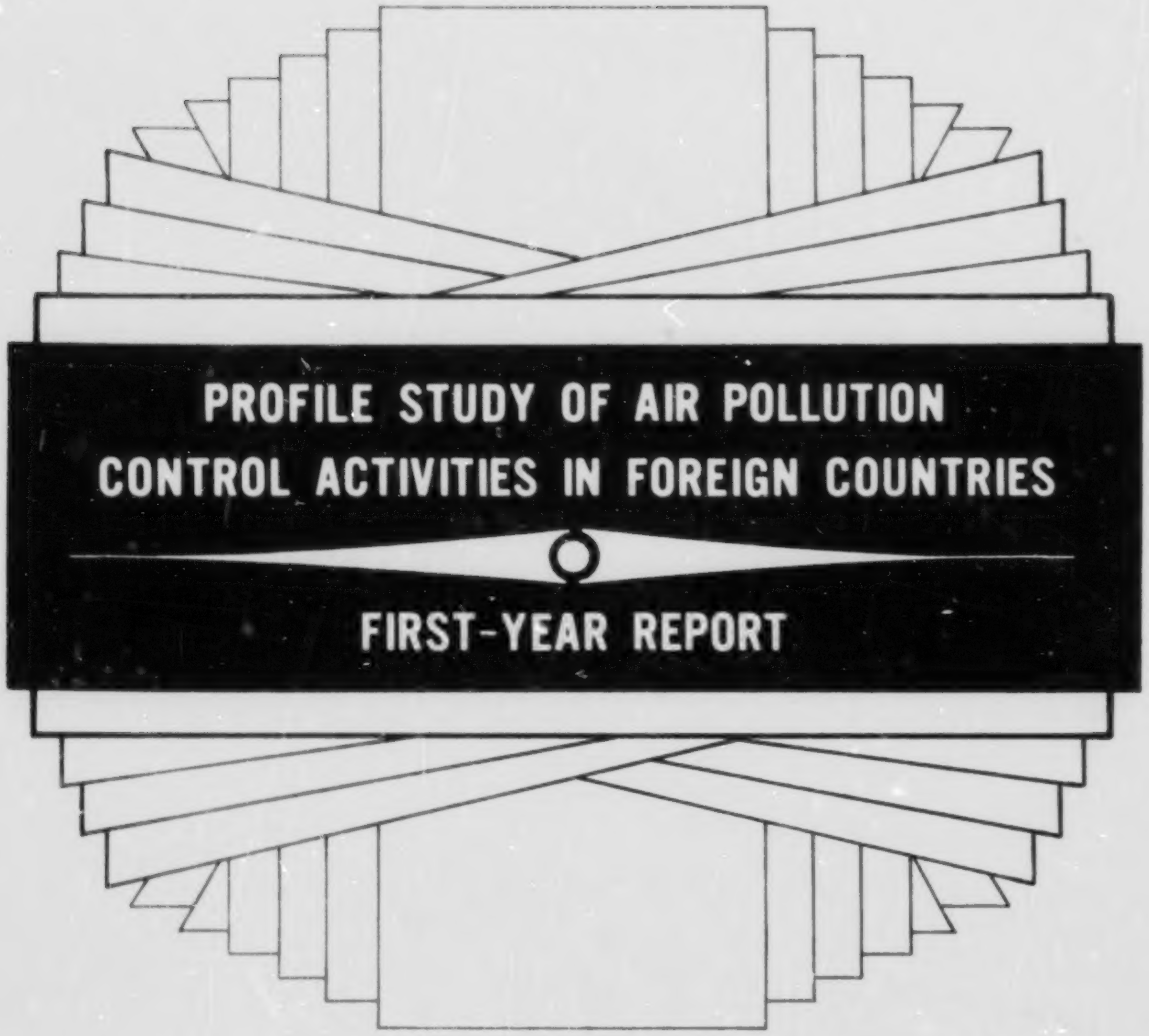

PROFILE STUDY OF AIR POLLUTION CONTROL ACTIVITIES IN FOREIGN COUNTRIES

FIRST-YEAR REPORT

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Public Health Service
Environmental Health Service

810

PROFILE STUDY
OF AIR POLLUTION CONTROL
ACTIVITIES IN FOREIGN COUNTRIES
FIRST-YEAR REPORT

Government Research Laboratory, Esso Research and Engineering Company.
Contract Number CPA 22-69-68.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Environmental Health Service
National Air Pollution Control Administration
Research Triangle Park, North Carolina
November 1970

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National Air Pollution Control Administration Publication No. APTD-0601

THE PURPOSE OF THIS FIRST-YEAR REPORT IS
TO MAKE INFORMATION AVAILABLE
AND TO ELICIT FURTHER INFORMATION
AND CORRECTIONS. IT IS PUBLISHED AS
A WORKING DOCUMENT UNTIL A MORE
COMPREHENSIVE FINAL REPORT CAN BE ISSUED
AT THE END OF THE SECOND YEAR
OF CONTRACT CPA 22-69-68.

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FOREWORD

This document contains material collected during the first year of a two-year research contract to prepare a profile of air pollution control activities in selected countries outside of the United States. The final document from the completed study will serve as a guide to all aspects of air pollution control activities and major sources of pertinent information in the countries covered. It will include a descriptive roster of individual organizations involved with the names and titles of key personnel.

Although the information presented is incomplete and subject to correction, in order to spread it and to collect some helpful criticism it is made available at this time in a working document that will be updated and revised at the end of the second contract year. Some new information will be gathered in field visits during 1970-71, and a few countries will be added, but much of the revision will be based on the comments received from users.

This study is being conducted for the National Air Pollution Control Administration Office of Technical Information and Publications, under Research Contract CPA 22-69-68, by the Government Research Laboratory of Esso Research and Engineering Company. Comments that will up-date, correct, or supplement any general aspect of the present draft may be addressed to either:

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In this report the term "control activities" is used in the generic sense, to cover inspection and surveillance as well as legislation and abatement measures. It includes all types of organized technical and social action by government agencies, private groups, and individuals.

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Over one thousand organizations dealing with air pollution control activities in 14 countries are included in the context of their functions in each country. Geography, political background, administration and finance of national and local control programs, current interests, proposed control programs and time tables for meeting goals are described in textual format for Austria, Belgium, Switzerland, Denmark, France, Great Britain, Italy, Japan, Norway, Netherlands, Sweden, and Soviet Union with similar descriptions for 19 international organizations. Where applicable, publications relating to air pollution are also listed. Although cross-referenced in the text, each individual organization is outlined in a separate section that is also divided by countries. The outline not only describes aims and functions but also key personnel and complete addresses. Functional and geographical cross-indexes within and across countries facilitate use on an issue-oriented basis. This is a working document for preparing the second-year, supplemental report which will contain additional countries, as well as additional information for the countries already listed.

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I. ORGANIZATION OF DOCUMENT

The material in this document is presented in two major parts. The profile test in the first part present a synopsis of air pollution control activities in each of 13 countries with the activities of international organizations outlined as a 14th. The second part contains a reproduction of a set of index cards defining the role of individual organizations and groups in each country. There is one card for each organization concerned. A cross-index at the end of the report provides a convenient reference to all the organizations included, by category and by country.

The profile texts in Section II and index cards in Section III are arranged alphabetically by country. The text and cards are co-ordinated by means of index numbers, consisting of a country code and a three-digit serial number, e.g., A.001. The codes are the same as the abbreviations used on European auto license plates to identify the country of origin. JA has been added for Japan. The alphabetical order of country codes differs only slightly from the alphabetical order by the country names in English (Table 1). In the larger countries, numbers were assigned in groups, to give some indication of the type of organization, such that they follow the sequential organization shown in the cumulative cross-index. Gaps in the sequences appear where there were not enough organizations in the country to fill the particular category. This was done to allow for flexibility in the updating procedure.

Table 1: Country Identification Codes

A	Austria	I	Italy
B	Belgium	JA	Japan
CH	Switzerland (Confederatio Helvetica)	N	Norway
		NL	Netherlands
D	Germany (Deutschland)	S	Sweden
DK	Denmark	SU	U.S.S.R. (Soviet Union)
F	France	X	International
GB	Great Britain		

Pages in the profile texts are numbered and coded according to country, and the cards for each country are arranged in Section III sequentially by serial numbers.

When a particular organization is referred to in both text and cards, the index number is entered in the margin of the text and a "T" is marked on the upper right corner of the corresponding card. The index number is also used for references in the AFFILIATION and SEE ALSO boxes on the cards.

This report was furnished to the Air Pollution Control Office by the Esso Research and Engineering Company in fulfillment of Contract No. CPA 22-69-68.

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II. PROFILE TEXTS

BY COUNTRY

Austria
Belguim
Denmark
France
Germany
Great Britain
Italy
Japan
Netherlands
Norway
Sweden
Switzerland
U. S. S. R.
International

FORMAT OF TEXTS

The profile text is divided by countries. For each country it includes a discussion of geography, political features, current air pollution controls, and future trends, followed by an outline of the relationships among major organizations active in air pollution control. The general format for the profiles is shown in Table 2.

The arrangement of material in the text is reasonably uniform from country to country, but occasionally varies for more effective presentation. For example, in countries like Japan and the Soviet Union, which are highly centralized, material is presented by ministries first and then by geographical areas. For Germany, the individual states or Länder are emphasized. The text serves to identify major organizations and indicate why each of them is considered important; there is, however; no connection between importance and the order of numbering of the cards. The serial number of each organization mentioned in the text is entered in the margin, for easy reference to its card in Section III.

Serial numbers have been pre-arranged by type of organization and a set of special indexes is included with the cards. It is noticeable in Japan and the Soviet Union, and to some extent everywhere, that the public health service aspects of air pollution control are well organized and represent the bulk of the organizations reported. This balance may be shifted somewhat as more complete information is obtained.

The information collected in Japan and the USSR is given a more detailed and systematic treatment, because much of this material has not been previously translated into English and is not readily available elsewhere in the United States.

Table 2: COUNTRY PROFILE OUTLINE

Name of Country — Country Abbreviation and page number
Date of Profile

I. GENERAL AIR POLLUTION BACKGROUND

- A. Geography
- B. Political features
- C. Present controls
    - 1. National
    - 2. Local
    - 3. Administration
    - 4. Finance
- D. Trends
    - 1. Current interests
    - 2. Proposed controls
    - 3. Time table

II. RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

(Includes names of key individual(s), size, purpose, activities, accomplishments).

AUSTRIA

GENERAL AIR POLLUTION BACKGROUND

Geography

Mountainous in the west, south and north, but with broader and more thickly populated valleys in the east, Austria is a rather small country of very varied topography. The climate too is varied, tending to continental in the east, with accompanying winter-time atmospheric stability.

Agriculture and forestry are economically important and, having significant mineral deposits (including oil, lignite and some coal), Austria is also well industrialised: iron and steel works, aluminium smelting, oil refining, heavy chemicals, cement and fertilisers, as well as machinery and instruments, paper and leather products. Hydroelectric power is being extensively developed. Much of this industrial activity is concentrated in the eastern half of the country, especially around Graz and Linz. Wien (Vienna) is by far the largest town, having a population of $1\frac{3}{4}$m.

Political Features

Austria is a centralist federation of nine Bundesländer (provinces)* which retain a considerable proportion of local autonomy as well as responsibility for the administration of federal legislation.

Problems of environmental conservation are generally local to industrial complexes and to the larger towns. Concern is promoted actively in the press - particularly as regards water pollution - but there is no great political activity.

Present Controls

There are no specific Federal regulations for air conservation. Application by the Bundesland authorities of the provisions of the industrial code (Gewerberecht) and the building regulations leads however to the specification of permissible oil fuel sulphur contents, smoke and particulates emissions, and stack heights. There is also provision for surveillance by the local authorities (Arbeitsinspektorat, that the prescribed conditions are being observed. All these actions arise from regulations for the protection of public health. The German TALuft values are used for guidance on immissions (as are the MAK values for industrial exposure).

---

* Vorarlberg
Tirol
Kärnten (Carinthia)
Salzburg
Steiermark (Styria)
Oberösterreich (Upper Austria)
Niederösterreich (Lower Austria)
Burgenland
Wien (Vienna)

Trends

Although in the absence of acute air pollution problems there is no great political pressure for action, several government departments and university institutes are concerned to evaluate the present situation, particularly as regards sulphur oxides, carbon monoxide, lead and noise. Conseration is also being given to planning the proper location of industries to avoid areas of poor dispersion.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

The Bundesministerium für Soziale Verwaltung (Federal A.001
Ministry of Social Affairs) has broad responsibility for maintaining
adequate control of air pollution by virtue of its responsibility
for public health (Volksgesundheit). Following a 1967 symposium
on environmental conservation, the Ministry requested the Akademie
der Wissenschaften (Academy of Sciences) to coordinate and advise
on all air pollution aspects. An informal group of experts, known
as the Kommission Reinhaltung der Luft (Clean Air Committee), A.003
was selected from various active organisations for this purpose.
An official air pollution group may later be established, after
resolution of the respective constitutional responsibilities
of the Federal and Land governments.

Traffic regulations, which contain very general provisions
for emission limitations, are the responsibility of departments
of the Bundesministerium für Handel, Gewerbe und Industrie (Federal A.002
Ministry for Commerce, Trade and Industry). Practical measurements
of vehicle emissions are made by the Bundesprüfungsanstalt für A.004
Kraftfahrzeuge (Federal Vehicle Testing Station). Research
into automotive emissions reduction is made by the Institut für
Verbrennungskraftmaschinen der Technische Hochschule Wien (Vienna A.057
Technical University's Institute for Internal Combustion Engines).
Advice on automotive fuel quality is given by ÖMV (Österreichische A.030
Mineralöl-Verwaltung AG) the state oil company.

Responsible for studies of climate and dispersion, and also
for undertaking a number of air quality surveys in various parts
of Austria, is the Zentralanstalt für Meteorologie und Geodynamik A.005
(Central Meteorological and Seismological Institute). This
organisation has close connections with the German VDI. For new D.021
construction in the Vienna area, by commission this Institute
undertakes baseline surveys and calculates appropriate stack heights.

The Lehrkanzel für Theoretische Meteorologie der Universität A.056
Wien (Vienna University's School of Theoretical Meteorology)
was directly concerned with the development of the German
VDI Richtlinie (code of practice) on stack heights.

Hygiene aspects of air pollution are the responsibility of
the Bundesstaatliche Bakteriologische Serologische Untersuchungsan- A.006-7
stalte (National Institutes for Bacteriological and Serological
Research) in Vienna and Linz, in close coordination with the Public
Health Department of the Ministry of Social Affairs and two A.001
Institutes of Vienna University.

The first of these, under the leadership of Professor Schedling,
is the Institut für Medizinische Physik (Institute of Medical A.051
Physics) which has made extensive studies of urban air including
trace metals, using a variety of sophisticated analytical procedures.
Prof. Schedling is Austria's representative on the OECD Air X.005
Management Research Group and a member of the ad-hoc Clean Air A.003
Committee.

At the other of these Vienna University Institutes, Institut für A.052
Hygiene, Prof. Haider is actively investigating the psychological
response to vehicle pollution, especially carbon monoxide and
noise. There is close cooperation with Prof. Schedling in this work.

Investigations of noise problems are coordinated by the
large Österreichischer Arbeitsring für Lärmbekämpfung (ÖAL - A.011
Austrian Noise Control Working Group) which reports to the
Bundesministerium für Sozial Verwaltung (Ministry of Social Affairs). A.001
This body studies problems of noise, ranging from traffic to power
saws. It issues quarterly reports of its work.

The Österreichische Staub (Silikose)-Bekämpfungstelle (ÖSBS - A.042
Austrian Smoke/Silicosis Campaign Centre) studies the occupational
hygiene problems presented by dust in mining and tunnelling.

With agriculture and forestry playing a significant role in
the Austrian economy, national research into the effects of pollutants
on plants is carried out by the Bundesanstalt für Pflanzenschutz A.008
(Federal Establishment for Plant Protection) and on forest trees
by the Forstliche Bundesversuchsanstalt Mariabrunn (Federal Forestry A.009
Research Establishment at Mariabrunn). The latter is represented
on international forestry groups, and also publishes 'Mitteilungen
der Österreichische Sanitätsverwaltung' in which other organisations
also report their work. In the academic field, the Hochschule für A.060
Bodenkultur (College of Agriculture) at Vienna has a botanical
institute which includes the forestry implications of air pollution
in its studies. This body too is represented in the German VDI D.021
committees. Work on plant cell metabolism is undertaken by the
Institut für Anatomie und Physiologie der Pflanzen der Universität A.061
Graz.

A number of regional or local governments undertake air A.021-6
quality surveys in relation to the surveillance of industrial
regulations. Similarly, several of the major industrial companies
study their own particular problems (for instance, the effects of A.031-4
fluorides emissions from the aluminium smelter at Ranshofen). A.032

A useful service in electron microscopy for the analysis of
particulates is provided by the Zentrum für Elekronmikroskopie A.043
at Graz.

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BELGIUM

GENERAL AIR POLLUTION BACKGROUND

Geography

This densely populated country in the "cockpit" of Europe has a long history of industrialisation. The traditional coal and iron industrial areas lie in the east and south, from Liège (Luik - Fl)* to Mons; bricks and textiles and, more recently, chemicals are manufactured near Ghent*; while Antwerp (Anvers - Fr)* in the north is a rapidly-growing port and industrial area, especially for petroleum refining.

With the decline of the coal industry and the concomitant growth of the petroleum and associated chemicals industries, there is a trend in activity away from the southeast and towards the north in Belgium - a trend which is paralleled by new activities in air pollution control.

Political Features

The dual-nation character of Belgian political life which has become acute over the past few years has produced a trend to decentralisation and has also led to the duplication of many public offices and other organisations. Not only must all public organisations be named in both French and Flemish but separate subdepartments or offices are not uncommonly set up to deal separately with the two communities (see, for example, CÉBÉDAIR and BECELU). B.023 B.024

Technical information and opinions tend to be fragmented. Nevertheless, as a result of a few air pollution incidents in the past year or so, some members of parliament are pressing for tighter controls and, as indicated below, proposals to limit domestic sulphur oxides emissions in the big towns are expected before the 1970 elections.

Present Controls

National

The Clean Air Act, initiated by the Ministry of Public Health and dating from 28 December 1964, is a basic law (Loi de Cadre) which provides a framework for individual decrees to bring into effect its broadly-written provisions. These broad provisions are summarised in Appendix 1.

---

* The two-language situation in Belgium means that the names of many towns exist in two versions, one French and the other Flemish. The English names used in the present text sometimes provide a third version, as with Gent (Fl), Gand (Fr), Ghent (Eng).

So far, however, only one decree has appeared under the Clean Air Act. This established, on 13 December 1966, the requirements for the approval of laboratories and institutions to undertake official air pollution work. A note in the official gazette of 22 February 1968 lists eight laboratories which are officially
approved - in addition to that of the Ministry of Health itself. B.006
These are the municipal laboratories of Antwerp and Ghent, the B.015
laboratory of toxicology at the University of Liège, the inter- B.020
communal laboratory at Charleroi, the physical chemistry laboratory
of the Institute of Mines at Pâturages, and the laboratories of the B.009
Association Vincotte and of CÉDICOL in Brussels and of CÉBÉDEAU at B.025
Liège. B.027

Specific legislation against emissions from motor vehicles also exists in Belgium. Essentially concerned with smoke emissions, they were initiated by the Transport Division of the Ministry of Communications and were promulgated in June/July 1964, just before the Clean Air Act mentioned above. The essential provisions of the two Decrees are described in Appendix II.

Still older Decrees, dated 11 February 1946 and 27 September 1947 being general regulations for the protection of workers, relate the stack height to the temperature and sulphur dioxide content of flue gases for certain ore-roasting or agglomeration activities in the zinc and lead industries. The main regulations are summarised in Appendix III.

Local

All industrial enterprises require an operating licence from the local municipal or provincial council.* Industries are grouped into three classes for this purpose. Small or inoffensive industries in Class I obtain their licence from the local Municipality. Larger industries (Class II) are licensed by the Province, or by one of the larger Municipalities under permanent delegation of authority from the Province. The very dangerous industries in Class III such as mining and explosives factories, are licensed only by the central Government. All licences contain appropriate design and operating conditions, which are also cleared by the Labour Inspectorate. There are, not unnaturally, some differences between the severity of conditions in licences granted by different authorities.

An old law in Belgium requires an individual to assist anyone who is in danger. It has been suggested that this should be extended to require an industrial plant to advise the local population about incidents - of fire or of pollution, for example - which might be to the danger of the local population. Another old law of 1790 requires the local Burgomaster to safeguard the public health within his commune and to enter a works and to shut it down in such circumstances that it might present a local danger. This law could be operated through

---

* There are nine Provinces (West and East Flanders, Antwerp, Limburg Brabant, Hainaut, Namur, Liège and Luxembourg) and five principal towns (Brussels, Antwerp, Ghent, Charleroi and Liège).

the more modern Labour Inspectorate but, because of its ruthless B.005
nature, is not in fact so employed. Nevertheless, in Antwerp
a system is in force whereby pollution (and other) incidents must B.014
be advised to the local police or fire authorities so that appro-
priate assistance can be rendered or the local population can be
assured that control measures are being taken.

Trends

Although the newspapers report air pollution incidents and news,
there is no great agitation by the man in the street about air
pollution. The topic is debated coolly. On the other hand, local
political pressure, especially in Antwerp and Ghent, for increasing
the control of air pollution has led the Ministry of Public Health, B.003
under the initiative of Dr. Halter, its chief officer, to begin the
formulation of proposals to control smoke and sulphur oxides emis-
sions from large domestic and office space heating in certain
classified zones starting with Brussels, Antwerp and Liège according
to the latest information (compare the "zones de protection" in
Paris). The views of the major fuel suppliers and of the various
municipal interests affected are being consulted in the formulation
process.

These proposals could well reach fruition and be enacted during 1970.

The 1946-7 Decrees controlling the stack height for certain industries are in process of being brought up to date. It is proposed that all industries shall be classified according to their energy consumption, each with appropriate limitations for emissions of smoke, sulphur dioxide, and/or other pollutants. This is expected to bring about a consistent approach throughout Belgium in the conditions attached to industrial operating licences.

No date has been mentioned for these new regulations to be published.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

The Ministérie de la Santé Publique (MSP - Ministry of Public Health) is responsible for the introduction and application of air pollution controls in Belgium. Through its Director General, Dr. Halter, MSP plays the most important part in coordinating the opinions and actions of other ministries and official bodies. B.003

At the highest governmental level, the Commission Interministérielle de Coordination en Matières de Pollution de l'Air (Interministerial Commission for Air Pollution) under the chairmanship of Dr. Halter provides a forum for the exchange of views and the development of regulations by the various Ministries particularly concerned with current problems of air pollution. However, the enactment of regulations remains the responsibility of MSP. B.002

To coordinate commercial, industrial and specialist opinions, there is also the Conseil Supérieure de l'Hygiène Publique (Supreme Council for Public Hygiene). This central consultative body, whose opinions are sufficiently respected that proposed controls are unlikely to be furthered if it is not in favour, comprises experts from universities, medical practice, etc., with Dr. Halter from MSP as secretary. B.001

The MSP is also responsible for the Institut d'Hygiène et d'Epidémiologie (Institute of Hygiene and Epidemiology) whose Environmental Department under Dr. Bouquiaux undertakes the coordination and interpretation of air pollution surveys in Belgium. This Institute works closely with the Institut Royal Météorologique de Belgique (Royal Belgian Meteorological Institute), which collates the survey data on its computer and arranges for publication in the official Monthly Bulletin. B.006 B.007

Whereas the Ministry of Public Health is mostly concerned with problems of urban pollution, at least for the present, questions of industrial pollution lie mainly with the Ministry of Labour's Administration de la Sécurité de la Travail (Work Safety Administration), particularly as regards working conditions within industrial premises. Inspection of factories for compliance with the conditions of operating licences devolves upon the Inspection du Travail : Arbeids Inspectie (Labour Inspectorate), except in Liège Province where the Corps des Mines, engineers hitherto responsible for inquiring into fatal accidents in mines, is now (with the closing of many coal mines) to become responsible for investigating and advising on pollution in factories in that province. It may be noted that the Ministry of Labour is directly responsible for the classification and operating conditions of the medium-sized (Class II) industries and, usually through the Provincial or Municipal authorities, for the small (Class I) industries, but that the Ministry of Economic Affairs controls the licensing and operation of the largest (Class III) industries. B.004 B.005

The Ministry of Communications (Transport Administration) is active in the fields of traffic safety and was responsible for recommending the 1964 controls on vehicle smoke. Periodic vehicle inspection, which includes smoke from diesels, is carried out by ten private concerns, each with a prescribed area. These concerns, with the Ministry, help to finance a research organization called the Fonds d'Etudes et de Recherches relatives au Problème de la Sécurité Routière which investigates problems of road safety, including means of reducing exhaust emissions. B.012

The growth over the last 10-15 years of a new industrial area around the ancient Flemish port of Antwerp and the pressures for clean air from local political representatives have encouraged the very recent establishment of a provincial Centrum tegen Lucht en Water Verontreiniging (Centre Against Air and Water Pollution). B.014 Combining the capabilities of both the Antwerp Provincial and Municipal Laboratories - the latter under Dr. Clement being responsible for the air pollution aspects - this organization plans an integrated surveillance and investigatory service for the area. Technical advice is given by various experts, including professors from the Ghent State University. B.027

The internationally know organization CÉBÉDEAU under the vigorous leadership of Dr. Leclerc has long provided a valuable service in water purification, especially in the French-speaking industrial southeast of Belgium. Ten years ago, in 1959, a sub-section was set up to deal with problems of air pollution: CÉBÉDAIR (Centre Belge d'Etude et de Documentation de l'Air); B.003 even more recently, in 1966, a Flemish counterpart BECELU (Belgische Centrum van der Lucht) was established at Ghent with Dr. Hacquaert as director. B.004 CÉBÉDEAU and its air pollution subsections are guided by a Scientific Committee of industrial and university representatives who select projects and investigations proposed by Min. of Public Health, by the Provincial authorities, and by industry, the last usually through IRSIA. Results, where not confidential, are published in "La Tribune de CÉBÉDEAU".

Several university institutes have activities in air pollution. Principal amongst these may be mentioned the Rijksuniversiteit - Gent (State University of Ghent) with Profs. Bosch, Heyndrickx and Hacquaert, and the Université de l'Etat à Liège (State University at Liège) where Dr. Rondia is active. B.016 to B.019

Several industrial organizations also exist, to represent industries of certain types (eg. blast furnaces, or the petroleum industry) or in specific regions (such as GISPE and GIMPE for the Sambre and Meuse valleys respectively). B.008 B.032 B.030 B.031

APPENDIX A

PRESENT BELGIAN LEGISLATION AND REGULATIONS ON AIR POLLUTION

The basic law, the Clean Air Act, bears the date of 28 December 1964 and was gazetted on 14 January 1965.*

This is an outline of the principal Articles.

Art. 1. The King is given the power to take all appropriate measures to prevent or to fight atmospheric pollution, namely:
- to prohibit certain definite forms of pollution;
- to regulate or prohibit the use of equipment or appliances capable of causing pollution;
- to require or to regulate the use of equipment or appliances intended to prevent or to fight pollution.

Art. 2. Atmospheric pollution is defined, as far as the law is concerned, as any emission into the air, whatever the source, of gaseous, liquid or solid substances, capable of affecting human health, of harming animals and plants, or of causing damage to property and to sites.

Art. 3. Royal decrees taken in virtue of Art. 1 are submitted for advice to the Higher Public Hygiene Council. They are to be introduced jointly by the Minister responsible for Public Health and, according to the source of pollution:
- the Minister responsible for mines and underground quarries;
- the Minister responsible for labour;
- the Minister responsible for public works;
- the Minister responsible for transport by road, water, rail and air.

In all other cases, the Minister responsible for public health acts alone. Exceptional rules, however, apply to the Minister for Defence.

Art. 4. Concerns professional qualifications.

Art. 5. The Minister responsible for Public Health is entrusted with the task of co-ordinating the following tasks:
- (a) Sampling and analysis of substances emitted or of air presumed to be polluted;
- (b) Research concerning the effects of atmospheric pollution on human beings, animals and plants;
- (c) Research on efficient means of fighting atmospheric pollution;
- (d) Information of the public.

Tasks (a) to (c) are undertaken in collaboration with laboratories or public or private concerns which have been approved for this purpose by the Minister responsible for Public Health, in agreement with the other Ministers concerned. Task (d) may be entrusted to private organizations approved by the Minister responsible for Public Health.

Articles 6 to 10 concern enforcement and administrative measures.

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* In the Moniteur Belge/Belgisch Staatsblad.

APPENDIX B

BELGIAN LEGISLATION AGAINST AIR POLLUTION BY MOTOR VEHICLES

(a) Royal Decree of 30 June 1964 concerning the Highway Code:

This decree brings a modification to one Article of the highway code concerning motor vehicle exhaust emissions. The new wording is as follows:

> Motor vehicles must be conditioned, maintained and operated in such a way that they do not shed abnormal quantities of oil and combustion waste, that they do not inconvenience the public or frighten animals by noise and that except for transient smoke emissions, caused namely by the starting of the engine or the changing of gears, they do not emit smoke capable of lessening road security or causing inconvenience to the other users of the road.

(b) Royal Decree of 1 July 1964 to define the conditions to be filled by diesel-engined motor vehicles in respect of smoke emission:

Art. 1. Motor vehicles equipped with a diesel motor must conform, as far as smoke emission is concerned, with the provisions of the present decree.

Art. 2. Smoke emission is defined by its opacity, measured by means of a light absorption meter using a photoelectric cell. There follows a definition of the absorption coefficient and a few provisions concerning the instrument.

Art. 3. Concerns the conditions in which a smoke emission must be measured. (Direct reading of the instrument or use of a recording device - no storing of gases to be measured - permission to measure the whole or a sample of the exhaust).

Art. 4. Concerns the method of measurement (high acceleration with gear in neutral, the vehicle remaining stationary) and certain precautions to be taken:

check whether the exhaust system has not been tampered with;

check whether the engine, on acceleration, reaches its normal engine speed.

Art. 5. Defines the maximum allowable opacity, (an absorption coefficient of 1.280 per metre; approximately 70 Hartridge Units).

This figure is to be lowered later.

Art. 6. The Minister of Communications is responsible for the type-approval of smokemeters and for working out the correspondence between the conventional reading scales of the different types and the theoretical values defined in this decree.

Art 7. and 8. Concern administration.

(continued)

APPENDIX B (continued)

(e) Ministerial Decree of 2 July 1964 bearing approval of a laboratory entrusted with the testing of smokemeters for homologation.

Art. 1. This article entrusts the task of proceeding with the tests for the homologation of smokemeters to the Technical Motor Vehicle Laboratory of the State University of Ghent.

Art. 2. Concerns administration.

DENMARK

GENERAL AIR POLLUTION BACKGROUND

Geography

The groups of low-lying islands which comprise Denmark are well ventilated by the prevailing westerly winds off the North Sea. The mild maritime climate, combined with its soil and good position for trade, explains the relatively large proportion of the 5 million population which is involved in the agricultural and dairy industries. In the absence of commercial ore deposits, there is no metal smelting but foundries for shipbuilding and heavy machinery industries provide potential sources of air pollution; the lime, cement and ceramic industries are also well developed. With no worthwhile coal resources, Denmark depends heavily on imported oil for fuel. Copenhagen (København) is by far the largest town, and the largest proportion of industry is located there; other industrial centres are: Nakskov (shipbuilding and sugar refining) Ålborg (cement and shipbuilding) Århus (margarine) Kalundborg, Fredericia and Skaelskör (oil refining) Odense (shipbuilding) and Nordborg (general engineering).

Political Features

Despite the absence of any real air pollution problems in Denmark (due to the generally windy climate and the absence of large industrial concentrations), increasingly outspoken newspaper articles - many based on information from Sweden - have appeared in the past 18 months, and concern about air (and water) pollution has grown until it now ranks high in the priority tasks for all political parties.

Following the recommendations of a commission of Ministers, the Government has just set up a small high-level Committee to look into DK.001
the present control structure for environmental conservation and to make appropriate proposals. Further developments can be expected during 1970.

Present Controls

Regulation of pollution is, at present, very slight. Claims of nuisance or damage can be made by individuals under the "Culpa Rule". Exploitation licences, obtained from the building department (Bygnings Direktoratet - exact title varies) in each commune, are required for all new plant. These licences include some chimney construction requirements but not emission limits.

Factories may be inspected by the Sogneråd (County Council) for the nuisance risk they present. The Sogneråd can also restrict certain industrial activities to particular areas (zoning). The Sundhedskommissionen (Local Health Authorities) have general powers to prohibit industrial activity where there may be a danger to health, but there are no specific limits for smoke or effluent gases in Denmark. However, the bigger industries and power stations are making efforts to restrict emissions, often with help from the Dansk Kedelforening, DK.007 which has adapted and published the German VDI guidelines. D.021

The Fordselsloven (Traffic Code) prohibits emission of excessive noise, smoke or smell. Again there are no specific limits, and prosecutions are rare.

Trends

With the newly-grown interest of all political parties in environmental conservation and with the proposals for a new administrative structure expected from the Forureningsråd (Pollution Board) DK.001 next spring, it can be anticipated that a firm conservation policy and definite criteria for air quality will emerge in Denmark during the next year or so. In the absence of severe problems, public opinion seems likely to remain unemphatic.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

Undoubtedly the newly appointed Forureningsråd (Pollution Board) DK.001 is the most significant body in Denmark's air conservation activities. Consisting of three Ministry representatives under the chairmanship of a county sheriff, the Board is responsible to the Ministry of the Interior but is to be largely autonomous in action. It will be assisted by a technical committee of 12 members, Det Tekniske Forureningsudvalg.

The Board will consider all aspects of pollution in both urban and rural areas, and will consider noise, smoke, and damage to water courses, beaches, animals and plants.

In the next six months it is required: to submit proposals for immediate measures that can be taken against pollution; to make clear what powers the existing legislation gives to prevent pollution; and to propose a permanent administrative body for pollution prevention.

The ATV - Akademiet for de Tekniske Videnskaber (Danish Academy DK.006 of Technical Sciences) is the national centre for information on environmental conservation. The information on air pollution is generated by the Røgudvalget 62 (Smoke Committee 1962) one of the DK.003 research committees within the ATV. This considers the problems of air pollution caused by the increasing industrialisation and energy consumption in Denmark. The Røgudvalg initiated, and published in September 1968, a comprehensive survey of smoke and sulphur dioxide in the five major towns (Copenhagen, Ålborg-Nørresundby, Odense, Vejle

and Maribo), though the practical work was undertaken by the DKF -
Dansk Kedelforening (Danish Boiler Owners Association). The DK.007
Røgudvalg works closely with DKF.

The Dansk Kedelforening (DKF) has been for many years the DK.007
principal organisation making measurements of air pollution in Denmark
(though the first survey of air pollution in Denmark was made
by Prof. Andreasen of Denmarks Tekniske Højskole (Technical University DK.014
of Denmark) and published by the ATV in 1949. The DKF has
a well-equipped laboratory and test station from which it continues
a general urban survey of Copenhagen for the ATV; it also undertakes
special surveys, including measurements of effluent gas quality and
of efficiency of purifying equipment, for Danish industry, whether
members of DKF or not. The present role of the DKF in making urban
surveys could be affected by the report of the Forureningsråd.

Dr. Poul Bonnevie, professor of social medicine at the Hygiejnisk DK.015
Institut, has an important place in providing information on the health
effects of pollution. He is medical advisor to the Ministry of the
Interior (where responsibility for pollution resides), to its Sundhedsstyrelsen
(Health Board) and through that to the Sundhedskommissionen
(Local Health Authorities) in each commune. He is also consultant to
the Arbejdshygiejnisk Institut (Occupational Hygiene Institute) which DK.004
advises the Direktoratet for Arbejdstilsyn (Labour Inspectorate) on air
quality standards for factories.

Several industrial groups have advisory committees for pollution
problems. These include the Danske Elvaerkers Forening (Danish Power DK.010
Plants Association), the AOV - Asfaltindustriens Oplysningskontor for DK.013
Vejbygning (Asphalt Industry Association) and the Oliebranchens Faellesrepraesentation DK.011
(Petroleum Industry Association). Several of the
member companies of these associations also have environmental conservation
committees (eg Dansk Esso). DK.012

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FRANCE

GENERAL AIR POLLUTION BACKGROUND

Geography

France, the largest country in W. Europe, ranges in topography and climate from the flat maritime north and west, through the mountainous centre and east and far southwest, to the dry Mediterranean south. The country is populated at a relatively low density for Europe as a disproportionately large part of the 50m population is concentrated in the Paris region (estimated at 6-7m, of which 2.6m in urban Paris). Other large towns are: Marseille (0.9m), Lyon (0.5m), Toulouse (0.4m), Bordeaux, Lille, Strasbourg, St. Étienne and Le Havre (0.2 - 0.3m).

The country is well-watered and fertile, and agriculture and forestry play an important part in the economy. Mineral resources include very important iron and coal deposits in the northeast (Metz, Lille), with lesser fields in the east and centre (St. Étienne, Lyon). Bauxite is worked in the southeast (Département of the Var) but the aluminium is smelted in the Maurienne (Alpes) and at Lagor (Basses Pyrenées) where electric power is more abundant from hydroelectric and natural gas resources. There is some indigenous crude oil in Alsace and near Bordeaux, but this is overshadowed by the gas field at Lacq, which is enormous though very sulphurous.

Besides their metallurgical industry, Lille, Nancy and Lyon have signficant textile manufacture. Important oil refinieries are located at Dunkerque (Dunkirk), in the Marseilles area, in the Seine Valley below Rouen, and near Bordeaux. Both Bordeaux and Rouen are important ports, and also include some metallurgical works and a growing chemicals industry. Nantes and le Havre are shipbuilding ports. The Paris region is the location of a very wide variety of industry, including most of the vehicle manufacturing; the space-heating demand of the large population of this area also represents an important air pollution source (see: "Zones de Protection" below).

Transport facilities are well-developed, especially the canals and rivers and the railways (which are largely electrified).

Hydroelectric power generation provides about one-half of the electricity demand; coal and oil share the rest about equally, but future expansion is likely to be oil-fired. There is a small amount of nuclear power generation. Most thermal power plants are located around the large towns; Electricité de France, the national power generating organisation, has an effective policy of dispersion from tall stacks. F.062

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Political Features

Interest in controlling air pollution has been a feature of French public and political life for many years. Limits on the sulphur content of fuels for use in certain parts of Paris were among the first in Europe, as were regulations on vehicle crankcase emissions.

Numerous inter-locking organisations and groups responsible for the many aspects of air pollution are coordinating available information and research studies. This coordination and discussions of the proper framework for action are leading to the formulation of practical policies.

The French government supports the pan-European developments of the Economic Commission for Europe whose guidance on vehicle emissions regulations is expected to be promulgated shortly. An Interministerial Committee on the Environment was also recently established (see below: Trends).

X.003
F.001

The French communications media produce frequent articles on environmental conservation, especially on water pollution, but there are apparently no citizens' groups pressing for action.

Present Controls

National

Apart from provisions regarding good neighbourliness in the Code Civil, the most long-standing regulations having relevance to the prevention of air pollution are contained in the Law of 19 December 1917 regarding the classification of dangerous or unhealthy industries, subsequently amended on 20 April 1932 and on 2 August 1961; this last amendment specifically refers to the control of air pollutants and odours. The principal requirements of this legislation are given in Appendix I.

These basic Laws (Lois-cadres), published in the Journal Officiel de la République Française, have gained practical effect by the introduction of regulatory decrees (Décrets) and orders (Arrêtés). The most significant of these, a Decree dated 11 August 1964, established two "Zones de Protection Spéciale" in Paris. Between them, these two Zones include most of urban Paris. The Decree contains regulations controlling the operation of heating plant, defines the quality of permitted fuels, and sets out emission limits (see Summary in Appendix III). It may be noted that limits on SO_2 emissions are defined in terms of the thermal output of the furnace rather than as a direct limitation on the sulphur content of the fuel, but by specifying permitted fuel types for various applications (and since the maximum sulphur contents of commercial fuels are defined by Arrêtés of 1967), an effective maximum of 2% has been introduced for both zones, a lower level of 0.7% max being similarly effected for small installations, especially in Zone I.

The pollution levels that must obtain before any area is designated as a zone worthy of special protection are not defined in the various decrees. However, Dr. Coin of the Laboratoire d'Hygiène de la Ville de Paris (Paris Municipal Hygiene Laboratory) has quoted a value for sulphur dioxide of 750 µg/m³ occuring in 8 days in six consecutive months, or a dust value of 350 µg/m³ combined with high SO_2 levels. F.041

The regulations also require (or for some areas recommend) that large installations should burn low-sulphur fuels during conditions of poor atmospheric dispersion, or all the time in heavily polluted areas.

Large industrial installations may also be required to maintain measurements of emissions and ambient pollutant levels (smoke and SO_2).

As regards emissions from vehicles, an Arrêté of 28 July 1964 required gasoline vehicle engines to be equipped with a crankcase recycling system, with defined methods of testing for effectiveness. Arretés of 15 November 1963, 15 November 1965 and 20 January 1967 define permitted smoke emission limits (optical opacity) for private cars and commercial vehicles.

By an Arrêté of 31 March 1969, a limit is prescribed from 1 January 1970 for emissions of carbon monoxide at engine idle for all cars registered since 1 January 1960; this limit is 4.5% (with relaxation to 5.5% until 1 January 1971).

A second Arrêté of 31 March 1969 provides for the introduction of full cyclic dynamometer testing of gasoline-engine vehicles according to the technical recommendations of the Economic Commission for Europe. The limits on emissions of carbon monoxide and of hydrocarbons, quoted in grams per test and varying with vehicle weight, are applicable to the type-testing of vehicles from 1 September 1971 and to all newly registered vehicles from 1 September 1972. X.003

Testing of vehicles, by type or series-production, is to be carried out at an agreed laboratory and with instrumentation still to be defined. The laboratory of UTAC is deeply involved in this work. Surveillance of cars already in use is the responsibility of the police, but is not yet a regular practice. There is as yet no annual inspection of private vehicles (for safety etc. aspects), nor has a routine instrument for the measurement of CO at idle been officially designated. Meantime, some oil companies have started such measurements at service stations as a service to their customers (compare similar activities in Italy). F.057

Local

Apart from the Paris "Zones" which derive from national regulations, there are no special local regulations affecting air quality. However, the Prefects of the individual Départements have considerable discretion in the application of the national Laws and Decrees, especially affecting the licensing of the Établissements Classés (classified industries).

Administration

The application of the regulations for air conservation are the responsibility of the Préfet (Prefect - chief officer) of the individual Départements - of which there are about 90. Applications for industrial operating licences are directed to the Prefect, who has considerable local discretion. He takes advice from appropriate export sources and from model regulations.

For the large installations (>1000 th/hr), the Organisme des Établissements Classés (Organisation for the Classified Industries) advises on the technical aspects of pollution control, but the views of the Ministérie de l'Agriculture are invoked if appropriate (eg. for aluminium plants), as is the expertise on hygiene of the Ministérie des Affaires Sociales. The last is also responsible for advice on smaller installations and domestic heating, but the Ministérie de l'Équipement et du Logement (Minister of Housing) often gives technical advice in these cases. F.006

The inspectors of the Organisme des Établissements Classés - a few in each region - visit installations from time to time, examining the records of emissions or ambient air quality increasingly required to be maintained by the works itself, for conformity with the operating licence.

Vehicle pollution matters are the responsibility of the Ministérie des Transports assisted as appropriate by local police and municipal laboratories etc.

Paris is unique in having two Préfectures: a municipal authority, which in air pollution matters takes responsibility for domestic heating in urban Paris; and the Préfecture de Police, responsible for automotive pollution and for industrial emissions, and covering the whole Paris region.

Trends

Current interests

With the establishment of the Interministerial Commission for the Environment, a national plan for conservation is now being prepared by officials from fourteen Ministries, French representatives on international organisations, and many prominent experts. The plan, recently submitted to the Prime Minister, takes account of the work carried out in other countries and by international groups, and covers all forms of ambient pollution, the urban and rural environments, as well as the problems of education, public information, and the legislative aspects. It was also announced recently that a Secretary of State for the Environment would be appointed. F.001 F.002

A review of current air pollution studies by various French organisations is presently being made by CITEPA. Similarly, the DGRST is collating research proposals prior to the allocation of greatly enlarged government grants during the Sixth Development Plan. F.052 F.003

At the same time, a proposal is being progressed for the establishment of a new town, Vaudreuil, to have a population of 100-120 thousand, possibly to be located some 15 km above Rouen in the Seine Valley, but where problems will be designed out from the beginning.

Proposed controls, Time table

Thought is being given to the practicability of extending the Paris "Zones de Protection Spéciales" to include the principal suburbs, possibly during 1970. It is possible that other French towns will adopt this limitation on emissions, but probably not in the near future.

As mentioned above, the ECE limits for vehicle emissions will be adopted with full effect from September 1972.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

F.001

(Interministerial Commission on Air Pollution) coordinates the action of all government ministries concerned with air quality. It is attached administratively to the Direction Générale de la Santé Publique (Dept. of Public Health) of the Ministérie des Affairs Sociales (Ministry of Social Affairs), who have over-riding responsibility for environmental conservation measures in France. Regulatory decrees are issued by appropriate individual ministers but are countersigned by the Minister of Social Affairs.

The national policy on health is coordinated by the Conseil Supérieure de l'Hygiène Publique (High Council for Public Hygiene) which also comprises qualified representatives of interested ministries. F.004

The principal State organisation concerned with research into the hygiene and medical aspects of air pollution is the Institut National de la Santé et de la Recherche Médicale (INSERM) and its associated laboratories. F.021 These undertake research on epidemiology and on the biological effects of pollutants on animals and other organisms. The Vigoulet-Auzil (Toulouse) laboratory of INSERM maintains close liaison with the regional administration's laboratory at Lagor and with the work of Prof. Bourbon at the University of Toulouse. F.036 F.147

Other biological work is carried out by CERCHAR and at the University medical faculties at Paris, Rouen, Bordeaux, Caen and Besancon.

F.061
F.142
F.150
F.156
F.157
F.148

A very significant coordinating State organisation is the
Délégation Générale à la Recherche Scientifique et Technique F.003
(DGRST - General Delegation for Scientific and Technical Research).
Set up in 1969, this body is responsible for coordinating and subsidising
research programmes (on a wide variety of topics including
air pollution) at universities and private laboratories throughout
France. During 1969, it provided Fr 10m of funds; for the Sixth 4-
Year Plan, a figure of Fr 250 m is mentioned, and a list is now being
collated of proposed research programmes at a wide variety of
institutes etc.

The Centre National de la Recherche Scientifique (CNRS - National F.027
Centre for Scientific Research) also has a coordinating
responsibility but in air pollution its principal function is in the
coordination and dissemination of scientific documentation, and this
includes the publication of monthly abstracts of the literature.

The work of an important group of industrial and professional
associations is coordinated by a Comité de Coordination under the F.050
chairmanship of Prof. Henri Moureu. This Committee was established
in 1965 for the better orientation of the respective activities of F.051
APPA, CAPA and CATPA. It thus represents a concensus of opinion of F.054
hygienists, of all the various industries concerned, and of other F.053
experts.

APPA (l'Association pour la Prévention de la Pollution Atmospherique F.051
- Association for the Prevention of Air Pollution) with
Prof. Moureu as president, was registered in 1958 and officially
recognised as being "d'utilité publique" (of public value) in 1962.
In meeting its objective of informing local opinion, it has set up
and coordinates regional committees, advises local authorities, and
publishes the quarterly "Pollution Atmosphérique". In this way it
builds up a picture of local air pollution problems and also provides
a public communications medium for the work of CATPA, CAPA and CITEPA F.053
The membership of APPA and the officers of its regional committees F.054
are given in Appendix IV. F.052

The organisation known as CAPA (le Comité d'Action pour l' F.054
Assainissement de l'Atmosphère - Action Committee for Atmospheric
Purification), under the presidency of M. Gallienne, comprises representatives
of a dozen associations and organisations concerned
with vehicles and traffic; these are listed in Appendix V. CAPA's
objectives comprise the coordination of information on all types of
vehicle emissions and means of reducing them. Education of the
public and the training of specialists are also included. CAPA
maintains close liaison with UTAC F.057

Information and activity on air pollution originating from
fixed installations and from industrial processes are coordinated by
CATPA (le Comité d'Action Technique contre la Pollution Atmosphérique F.053
- Technical Action Committee against Air Pollution). With
M. Louis Armand as president and with the membership listed in
Appendix VI, this committee considers the problems of industrial

zoning, the problems of air pollution arising from the provision of energy, from combustion, and from chemical processes, and the technologies of dispersion and abatement. Training of specialist personnel and information of the public are included.

Much of the detailed work of CATPA is undertaken by CITEPA (Centre Interprofessionel Technique d'Études de la Pollution Atmosphérique - Interprofessional Technical Centre for Air Pollution Studies) under the presidency of M. Nérot and with M. J-P. Détrie as director. The full membership is listed in Appendix VII. This group prepares quarterly technical digests of developments and activities in air conservation technology in France and abroad, formulates guiding documents on such matters as stack height calculations and advises government departments on the technical aspects of proposed legislation. F.052

Important in the chemical industry, IRCHA (Institut de Recherche Chimique Appliquée - National Institute of Applied Chemical Research), with M. Avy as scientific adviser on conservation matters, provides a service (on commission) to individual industries to investigate pollution problems. IRCHA is also initiating an area survey of air pollution sources and levels around Rouen, which involves methodology development - in which it is State supported. Important work on abatement, such as high temperature dust filtration, is also in progress.

The national coal industry in France has a research and study group, CERCHAR (Centre d'Études et Recherches des Charbonnages de France), which undertakes a wide range of research relating to air pollution problems. These range from studies of nitrogen oxides formation in flames, through work on dust effects, measurement and control, to stack-gas dispersion design experiments; they include animal experiments for the prevention of silicosis. F.061

Électricité de France (EDF), the national electricity generating and distribution organisation, undertakes surveys around its thermal power plants. In several areas, these provide a basis for knowledge of ambient air quality. Extensive studies are also made at several centres of pollutant formation and dispersion, including wind-tunnel measurements. F.062

Paris is the only town in France which has two Prefects. Each has its own laboratory, where work includes air conservation studies. The Laboratoire d'Hygiène de la Ville de Paris (Paris Municipal Hygiene Laboratory), directed by Dr. Coin, has responsibility for the urban hygiene problems of Paris, including the effects of air pollution in dwellings and enclosed public spaces (such as the Métro). Surveys of smoke and sulphur dioxide levels over many years at 94 sites in Paris and its suburbs have enabled maps to be drawn and trends deduced. Other pollutants, including biological matter, are measured intermittently. F.041

The Laboratoire Central de la Préfecture de Police de Paris F.035
(Central Laboratory of the Paris Police Department) has responsibility
for ambient pollution due to motor vehicles and to industrial
and commercial emissions. Under the leadership of Prof. Chovin, and
as reported in the Annual Reports of the Laboratory, surveys of
urban levels of carbon monoxide (at more than 300 sites), sulphur
dioxide, lead and particulates have been made for several years.
Demonstrations of practical reductions of CO emissions have been
made with police vehicles, as have measurements of CO and Pb in the
blood of policemen on and off duty. This laboratory's work has
been markedly influential on government policy.

Also concerned with emissions from automotive vehicles is UTAC F.057
(l'Union Technique de l'Automobile, du Motocycle et du Cycle -
Technical Union for Cars, Motor Cycles and Bicycles). This private
association supported by the motor manufacturing industry has a well-equipped
laboratory in which vehicles are tested for conformity with
all types of existing regulations. As the laboratory is officially
recognised, its measurements are accepted by the Service des Mines,
which grants vehicle operating licences. Measurements are also commissioned
(confidentially) by individual manufacturers. By virtue of
its breadth of experience and unique standing, UTAC's opinions are
consulted on proposed vehicle regulations.

The Institut Français du Pétrole (IFP - French Petroleum Institute) F.064
has a large laboratory in which it undertakes a wide range of
research in abatement techniques: emissions from internal combustion
engines, gas stream de-polluting (including flue gas desulphurisation)
and fuel oil desulphurisation. These last two processes are said to
be near commercialisation.

There are, besides these organisations, a large number of individual
companies active in air conservation work. Many are members
of local or national associations in their own sphere of activity -
eg. CERILH for the cement industry, IRSID for iron smelting, CTIF F.066
or COSTIC for space heating. In turn, these associations are loosely F.063
coordinated by the national professional grouping of CITEPA. F.083
F.093

As mentioned earlier, many university faculties have research
programmes on various aspects of air pollution. They include hygiene
aspects, biological sampling and dispersion studies (see, for F.144
instance, the Fluid Mechanics Institutes at Lille, Marseille and F.145
Toulouse). The hospital university college (collèges hospitaliers F.146
universitaires - CHU) in Rouen, Marseille and Besançon are also
active. Many of these academic activities are supported by DGRST
grants; others, such as the work of Prof. Bourbon at Toulouse, are F.147
related to the industrial problems of the area.

APPENDIX A

PRINCIPAL PROVISIONS OF THE LAW OF 19 DECEMBER 1917 REGARDING THE CLASSIFIED ESTABLISHMENTS

Industrial and commercial establishments are divided into three classes:

(i) Those which must be sited away from all dwellings because of a possible nuisance or danger to health;

(ii) Those which need not be kept separate from dwelling areas provided that adequate measures are taken to prevent damage or inconvenience;

(iii) Those which present no serious inconvenience either to neighbours or to public health and are subject to the general conditions issued in the interest of public health in respect of all similar establishments.

The first and second classes may only be operated with the authorisation of the Prefect of the appropriate Départment and may not be constructed in zones other than those reserved for industrial exploitation under the provisions of the Law of 15 June 1943. Alterations to existing establishments in these classes should not aggravate their effects on the neighbourhood. In the event of such an establishment causing a nuisance or damage, the operator is required to take measures to rectify the situation at his own discretion. If, however, these measures prove inadequate the authorities may enforce such measures as they deem necessary.

Establishments in the third class are required only to give prior notification to the Prefect of the Départment.

AMENDING LAW 61-842 OF 2 AUGUST 1961

Principal provision concerning air conservation:-

"All buildings and industrial, commercial, handicraft or agricultural establishments, vehicles or movable objects, possessed, operated or held by any private person or body corporate, shall be constructed, operated or used in such a manner as to prevent both the pollution of the atmosphere and smells which constitute a public nuisance, endanger health or public security, or are harmful to agriculture, the preservation of structures or public monuments and scenic beauty."

The provisions of the Law must be the subject of public administrative Regulations, issued by the Ministers of State concerned, and must specify:-

(i) The cases and conditions in which pollution by smoke, gases odours, etc. may be forbidden or controlled by law.

(ii) The periods allowed for compliance with the law.

(iii) The conditions for regulation and control of the construction of buildings, the opening of establishments not designated as classified establishments, the proper equipment of vehicles, the manufacture of mobile objects, and the permitted use of fuels.

APPENDIX B

DECREE 63-963 OF 17 SEPTEMBER 1963
(Supplementary to LAW 61-842 of 2 August 1961)

Introduction: – scope and penalties.

Section I: – measures applicable throughout France:

The Decree covers heating installations in administrative, industrial, commercial, professional buildings, or in dwelling buildings whether these buildings are public or private or owned by private persons or corporate bodies.

Technical specifications are to be issued by the Ministry for Industry, etc., which are to be observed in the manufacture, import or sale of equipment for the production of heat by combustion throughout the French market. The regulations covering these specifications must quote the period allowed for conformation with the regulations (this period should not exceed two years). At the end of this period it will be an offence to sell equipment that is not accompanied by a notice, issued by the manufacturer, stating the conditions for installation, adjustment, operation and maintenance of the equipment and the fuel for which the apparatus was designed. Inspectors shall have access to the installation for the purpose of taking samples or of making measurements.

When the installation is shown to be a source of pollution, the Prefect of the Département shall issue an injunction requiring the operators to adjust the installation, its method of operation or the type of fuel used, so that the nuisance is abated. If these measures are not taken or in an urgent case, the Prefect shall consult the Departmental Council of Hygiene (Conseil d'Hygiène) and then either implement the necessary work at the expense of the owner or close down the installation.

Section II: – the "Zones de Protection Spéciale" and the controls to be enforced within them:

These zones must be the subject of separate Decrees issued by a group of Ministers acting on the advice of the Prefect and Departmental Council of Hygiene. The selection of a zone is to be based on:-

the density and structure of the population;

the quality and concentration by weight of particulate matter in the atmosphere;

the concentration of sulphur dioxide or any other toxic gases in the atmosphere:

atmospheric absorption of solar radiation;

the influence of local climatological conditions.

The variation of these elements with time must also be taken into consideration.

APPENDIX B (continued)

The installations falling within the scope of Decree 63-963 must conform to the maximum limitations on any pollutant in their flue gases set by the subsequent Decree creating the "zone", which may also require the observance of further regulations, including maintenance schedules, fuel quality and quality of operator attending the installation. The owners or operators of installations with a heat output greater than 1000 thermies/hour are obliged to install and maintain permanent sampling facilities and to permit the installation of sampling facilities by control agents.

The Ministers of Public Health and Industry can issue a further Decree proscribing the use of heating equipment which is more than 10 years old in a "Zone" if there is no appropriate means by which it can satisfy the standards required. A delay period of not less than 5 years must be allowed, without prejudice to the Prefects' powers to act in a case of urgence or where abatement orders have been ignored.

None of the provisions in these Decrees applies to the Classified Establishments, but an additional Decree may be made in a similar form fixing measures of a general character applicable to all Classified Establishments situated within a "Zone".

APPENDIX C

DECREE OF 11 AUGUST 1964 ESTABLISHING "ZONES OF SPECIAL PROTECTION" IN PARIS

A. Two Zones are created:-

Zone I:

the whole of the 1, 2, 8, 9 and 17th arrondissements and parts of the 10, 16 and 18th arrondissements, (thus comprising a large part of Paris north of the Seine).

Zone II:

the remainder of Paris within the city limits.

B. Regulations are established controlling the operation of heating installations and defining the fuels permitted.

Installations must be designed and maintained so that they continue to conform to the emission limits. Installations of more than 350 thermies/hour must be visited at lease once a year by a person competent to check its operation. The operation of installations with a calorific output greater than 500 thermies/hour must be entrusted to a person competent in assuring its correct operation.

The coal burned in these Zones must not contain more than 15% of volatile matter. For liquid fuels, the following limitations are in force:-

Zone I:

Residual fuel oils, of sulphur content up to 2% max may be used only in installations with heating capacity greater than 1,000 thermies/hour (4m Btu/hr). (Effectively, therefore, all smaller installations must use domestic heating oil - sulphur 0.7% max).

Zone II:

Fuel Oil	Heating Capacity of Installation thermie/hr *
Heavy No.2 (Low Sulphur)	1,000 upwards
Heavy No.1	500 upwards
Light	350 upwards

* 1 th/hr = 1,000 kCal/hr ≈ 4,000 Btu/hr

Temporary departures from these requirements may be permitted by the Prefect if a process is used which maintains the emission of pollutants within the limits prescribed for the "zone".

APPENDIX C (continued)

C. Limits on emissions are established:

Dense Smoke:

the index of opacity shall not exceed a value of 6 measured with the Bacharach apparatus.

Particulate Matter:

the weight of particulate material in the flue gases may not exceed:-

Zone I:

0.6 gramme/thermie of fuel consumed;

Zone II:

1.2 gramme/thermie of fuel consumed.

Sulphur Dioxide

whatever fuel is used, the concentration of SO_2 in the combustion gases shall not exceed a level corresponding to 2 grammes sulphur/thermie of fuel consumed in the furnace.

The determination of these levels must be made with apparatus, and according to methods, given in Technical Instructions.

APPENDIX D

AIR POLLUTION PREVENTION ASSOCIATION

(L'ASSOCIATION POUR LA PREVENTION DE LA POLLUTION ATMOSPHERIQUE)

Comité d'Honneur	A.P.P.A. (F.051)
M. Louis Armand	de l'Académie Francaise, Président du Comite d'Action Technique contre la Pollution Atmosphérique
M. Arrighi de Casanova	Directeur Général de la Chambre de Commerce et d'Industrie de Paris
M. le Docteur Aujaleu	Directeur Général Honoraire de l'Institut National de la Santé et de la Recherche Médicale
M. Benedetti	Ancien Préfet de la Seine
M. Bourdon	Président de la Commission d'Hygiène et de Sécurité du Conseil National du Patronat Francais
M. le Professeur Bugnard	Membre de l'Académie Nationale de Médecine, Professeur à la Faculté de Médecine, Conseiller Scientifique aupres du Haut-Commissaire à l'Energie Atomique
M. Couture	Secrétaire General de l'Energie
M. le Professeur Debre	Membre de l'Institut (Académie des Sciences) et de l'Académie Nationale de Médecine
M. Doublet	Préfet de la Région de Paris, Délegue Général au District
M. Gallienne	Président du Comité National d'Action pour l'assainissement de l'Atmosphère
M. Grimaud	Préfet de Police
M. Haas-Picard	Président de l'Union des Chambres Syndicales de l'Industrie du Pétrole
M. le Professeur Roger Heim	Membre de l'Institut (Académie des Sciences)
M. le Professeur Jacquinot	Membre de l'Institut (Académie des Sciences), Directeur Général du Centre National de la Recherche Scientifique
M. le Professeur Marechal	Directeur de l'Institut d'Optique et de l'Ecole Supérieure d'Electricite
M. Papon	Député du Cher
M. Piganiol	Ancien Délégué Général a la Recherche Scientifique

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M. Serre	Ancien Ministre
M. Varlet	Ancien Vice-Président du Comité Consultatif de l'Utilisation de l'Energie
M. Viaut	Directeur Honoraire du Service "Direction de la Metéorologie Nationale"

Conseil d'Administration

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Secrétaire General Adjoint:	M. le Docteur Sommer, Médecin Conseil Regional, Secretaire General du Comité de l'A.P.P.A. de Marseille-Provence
Tresorier:	M. Roisse, President du Groupement des Associations de Propriétaires d'Appareils a Vapeur et Electriques
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M. Gallienne, Président du Comité National d'Action pour l'Assainissement de l'Atmosphère
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M. de Retz, Ingénieur, Chef du Departement Exploitation du Service de la Production Thermique d'E.D.F.
M. le Professeur Senault, Professeur d'Hygiène et de Médecine Sociale a la Fraculté de Médecine de Nancy
M. le Professeur Trubaut, Membre de l'Institut (Académie des Sciences), Titulaire de la Chaire de Toxicologie et d'Hygiène Industrielle à la Faculté de Pharmacie de Paris, Chef du Service de Chimiothérapie à l'Institut Gustave-Roussy

Délégué Général: M. Levantal, Avocat à la Cour

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	Vice-Président,	M. le Docteur Zorn, Directeur du Centre Régional d'Education Sanitaire et Sociale
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	Secrétaire Géneral,	M. le Docteur Sommer, Médecin Conseil Régional

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	Secrétaire Genéral,	M. le Professeur Agrégé Cottin, de la Faculté de Médecine de Nantes
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	Secrétaire Général,	M. le Professeur Valeyre, Titulaire de la Chaire de Biophysique a la Faculté Mixte de Médecine et de Pharmacie de Reims
Rennes:	Président,	M. le Professeur Honoraire Gregoire, Titulaire de la Chaire de Pharmacie et d'Hygiene à la Faculté Mixte de Médecine et de Pharmacie de Rennes
	Secrétaire Général,	M. le Professeur Yves Chauvel, Titulaire de la Chaire de Chimie Analytique à la Faculte Mixte de Médecine et de Pharmacie de Rennes
Saint-Etienne:	Président,	M. Namy, Industriel
Val-de-Marne:	Président,	M. Kornmann, Ingénieur E.P.C.I.
	Secretaire Genéral,	M. Fournier, Ingénieur des Services Techniques de la Ville de Paris
Strasbourg:	Président,	M. le Professeur Chaumont, Directeur de l'Institut de Médecine legale et de Médecine Sociale
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Tours:	President,	M. le Professeur Boulard, Titulaire de la Chaire d'Hygiene à la Faculté Mixte de Medecine et de Pharmacie de Tours
	Secretaire Genéral,	M. le Docteur de Lauture

APPENDIX E

COMMITTEE OF ACTION FOR PURIFICATION OF THE ATMOSPHERE

(LE COMITE D'ACTION POUR L'ASSAINISSEMENT DE L'ATMOSPHERE)

Conseil d'Administration C. A. P. A. (F.054)

Président: M. Georges Gallienne

Membres:

- Chambre Syndicale de Constructeurs d'Automobiles
- Chambre Syndicale Nationale du Motocycle
- Chambre Syndicale Nationale de la Réparation Automobile
- Chambre Syndicale Nationale des Rectifieurs et Reconstructeurs de Moteurs
- Fédération Nationale des Industries des Equipements pour Véhicules
- Fédération Nationale des Transports Routiers
- Societe "SOLEX"
- Syndicat National du Commerce en gros des Equipements, Pièces pour Véhicules et Outillages
- Touring-Club de France
- Union des Chambres Syndicales de l'Industrie du Pétrole
- Union Technique de l'Automobile et du Cycle
- Union des Usagers de Véhicules de Transport Privé

APPENDIX F

COMMITTEE OF TECHNICAL ACTION AGAINST THE POLLUTION OF THE ATMOSPHERE

(LE COMITE D'ACTION TECHNIQUE CONTRE LA POLLUTION ATMOSPHERIQUE)

Conseil d'Administration C.A.T.P.A. (F.053)

Président: M. Louis Armand, de l'Académie Francaise
Vice Présidents: MM. Pierre Alby, Directeur Géneral de Gaz de France
Jacques Ferry, Président de la Chambre Syndicale de la Siderurgie Francaise
Paul Gardent, Directeur Général des Charbonnages de France
Roger Ginocchio, Directeur du Cabinet du Ministre Chargé du Plan et de l'Aménagement du Territoire
Pierre Godard, du Conseil National du Patronat Francais
Jean Majorelle, Président du Comité Professionnel du Pétrole
Membres: MM. Jean Beaudelaire, Directeur des Services Technique et Scientifique du Syndicat National des Fabricants de Ciments et de Chaux
Pierre Bertrand, Président du Syndicat National des Exploitants de Chauffage et des Distributeurs de Fluides Thermiques
Robert Delsoi, Inspecteur General à Gaz de France
Roger Cadiergues, Directeur du Comité Scientifique et Technique de l'Industrie du Chauffage et de la Ventilation
Andre Cantoni, Président de l'Union des Chambres Syndicales du Chauffage, de la Ventilation et du Conditionnement de l'Air
Jean Chenevier, Président Directeur Général de la Société Francaise des Pétroles B.P.
Michel Douchez, Directeur General du Centre Technique des Industries Aérauliques et Thermiques
Roger Ducrot, Président de l'Association des Industriels du Pétrole
Emile Briand, Chef du Service Technique de la Direction (Services Commerciaux) des Houillères du Bassin du Nord et du Pas-de-Calais
Jean Feron, Directeur Adjoint, Chef du Service de la Production Thermique d'Electricité de France
Pierre Fortain, Président du Centre du Mazout
Ernest de la Hitte, Directeur Technique de l'Union des Industries Chimiques
Paul Leclers, Président de l'Union des Fabricants d'Appareils de Chauffage Domestique
André Missenard, Administrateur de l'Institut Francais des Combustibles et de l'Energie

Conseil d'Administration (Continued)

MM. Jean Orsal, Vice-Président Délégué de l'Union des Chambres Syndicales de l'Industrie du Pétrole
Michel Parent, Directeur-Gérant de l'Union Nationale de la Propriété Immobilière
Raymond Preux, Président du Comité de l'Importation Charbonnière
Robert Rabet, de l'Union Intersyndicale des Constructeurs de Matériel Thermique
Jean Regis, Président du Syndicat des Constructeurs de Fours et d'Equipements Thermiques
Bernard Robelin, Délégué Général de la Confédération Nationale du Commerce Charbonnier
Robert Roisse, Président du Groupement des Associations de Propriétaires d'Appareils à Vapeur et Electriques
Gérard Sabouret, Directeur Général Adjoint de la Compagnie Total-C.F.D.
Lucien Santini, Vice-Président de l'Association Technique de l'Importation Charbonnière
Edmond Vercouter, Président de la Société Générale de Founderie

Secrétaire: M. Henri Perdon, Directeur de l'Institut Francais des Combustibles et de l'Energie

APPENDIX G

INTERPROFESSIONAL TECHNICAL CENTER FOR AIR POLLUTION STUDIES

(LE CENTRE INTERPROFESSIONEL TECHNIQUE D'ETUDES DE LA POLLUTION ATMOSPHERIQUE)

Conseil d'Administration C.I.T.E.P.A. (F.052)

President: M. G. Nerot, Vice-Président Délégué de l'Institut Francais des Combustibles et de l'Energie

Vice-Presidents: MM. P. Alby, Directeur Général de Gaz de France
J. Feron, Directeur Adjoint, Chef du Service de la Production Thermique d'Electricité de France
C. Laurent-Atthalin, Directeur des Services Commerciaux des Charbonnages de France
J. Orsal, Vice-Président Délégué de l'Union des Chambres Syndicales de l'Industrie du Pétrole

President: E. Vercouter, Président de la Societé Genérale de Fonderie

Tresorier: M. P. Godard, du Conseil National du Patronat Francais

Directeur: M. J.-P. Detrie, Ingénieur Civil des Mines

Membres:
- Association Technique de l'Importation Charbonnière, représentée par M. Santini
- Bureau de Normalisation du Pétrole, représenté par M. Plet-Beaupre
- Centre du Mazout, représenté par M. Fortain
- Chambre Syndicale de la Sidérurgie Francaise, représentée par M. Lioret
- Charbonnages de France, représentés par M. Boivin
- Confédération Nationale du Commerce Charbonnier, représenté par M. Robelin
- Conseil National du Patronat Francais, représenté par M. Godard
- Electricité de France, représentée par M. Feron
- Gaz de France, représenté par M. Alby
- Groupement des Associations de Propriétaires d'Appareils a Vapeur et Electriques, représenté par M. Roisse
- Institut Francais des Combustibles et de l'Energie, représenté par M. Nerot
- Section Album et Fabricants d'Appareils de Chauffage Domestique au Syndicat Général des Fondeurs, représentée par M. Vercouter
- Syndicat des Constructeurs de Fours et d'Equipements Thermiques, représenté par M. Regis
- Syndicat des Exploitants de Chauffage et des Distributeurs de Fluides Thermiques, représenté par M. Bertrand
- Syndicat Général des Fondeurs de France, representé par M. Delachaux
- Syndicat National des Fabricants de Ciments et de Chaux, represente par M. Beaudelaire
- Union des Chambres Syndicales de l'Industrie du Chauffage, de la Ventilation et du Conditionnement de l'Air, representée par M. Cadiergues

Conseil d'Administration (Continued)

- Union des Chambres Syndicales de l'Industrie du Pétrole, représentée par M. Orsal
- Union des Industries Chimiques, representee par M. de la Hitte
- Union Intersyndicale des Constructeurs de Matériel Aéraulique, Thermique et Frigorifique, représentée par M. Douchez.

Comite Scientifique Consultatif

Président: M. le Professeur Lafuma, Directeur du Centre d'Etudes et Recherches de l'Industrie des Liants Hydrauliques (C.E.R.I.L.H.)

Membres: MM. l'Ingénieur Général Avy, Inspecteur General a l'Institut National de Recherche Chimique Appliquée, chargé de l'étude de la pollution atmosphérique

Docteur Boulenger, Directeur Général de la Santé Publique - Ministère de la Santé Publique et de la Securité Sociale

Professeur Brun, Directeur du Laboratoire de Mécanique des Fluides, Centre National de la Recherche Scientifique (C.N.R.S.)

Professeur Bugnard, Conseiller Scientifique auprès du Haut-Commissaire à l'Energie Atomique

Cazala, Chargé du Service de la Recherche et du Progrès Industriel, Ministère du Développement Industriel et Scientifique

Demon, Directeur-Adjoint, Service des Inventions et de la Recherche Appliquée (C.N.R.S.)

Jouan, Sous-Direction de l'Hygiène Publique - 4^{e} Bureau - Ministère de la Santé Publique et de la Sécurité Sociale

Professeur Letort, Directeur Général Scientifique du Centre d'Etudes et Recherches des Charbonnages de France (C.E.R.C.H.A.R.)

Professeur Moureu, Membre de l'Institut (Académie des Sciences), Président de l'Association pour la Prévention de la Pollution Atmosphérique (A.P.P.A.)

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Comite Scientifique Consultatif (Continued)

l'Ingenieur General Schowb, Délégué Général, Association Nationale de la Recherche Technique (A.N.R.T.)
Ternisien, Délégation Générale a la Recherche Scientifique et Technique (D.G.R.S.T.)
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GERMANY

Bundesrepublik Deutschland

GENERAL AIR POLLUTION BACKGROUND

Geography

Although having important economic interests in agriculture, viniculture and forestry - and therefore some concern about the effects of air pollution on these crops - Federal Germany is foremost a highly industrialised country with dense centres of population. The main centre of industrial activity lies in the Ruhr Area (Ruhrgebiet) in North-Rhine Westphalia. Possibly the largest industrial concentration in Europe, it comprises extensive coal mining, production of iron, steel and metal artefacts, and manufacture of heavy chemicals and textiles. Elsewhere: shipbuilding, mechanical engineering and oil refining are intensive at the river port of Hamburg, with oil refining also at Karlsruhe (in Baden-Württemberg) and Ingolstadt (in Bavaria); further mechanical engineering is located at Hannover and Brunswick (Braunschweig) in the north, at Kassel in the centre, at Mannheim and Stuttgart in the southwest, and at Munich (München), Nuremberg and Augsburg in the southeast. Large resources of deep-mined coal, and of surface-mined lignite (brown coal) to the west of Cologne (Köln), are extensively used in power generation. The widely dispersed industrial activity and the many large towns predicate the intensive road and rail transport system.

Political Features

West Germany is a federation of ten Länder, with Berlin*. The Federal Parliament (Bundestag) is elected by universal suffrage but the Federal Council (Bundesrat) comprises nominated members from the governments of the Länder. Executive power is vested in the Land governments, unless the Basic Law (Grundegesetz) of the Federal Constitution prescribes or permits otherwise. Federal law, where it exists, automatically supersedes Land law.

Concern about pollution is widespread, ranging from public discussion and newspaper articles, through research at numerous technical institutes, to the deliberations of an Interparliamentary Working Group at Federal level. D.001 Land activity is particularly marked in Nordrhein-Westfalen, not surprisingly in view of the industrial concentration in and around the area known as the Ruhrgebiet - the Ruhr valley industrial area (including the large towns of Essen, Dortmund, Duisberg, Bachum and Gelsenkirchen).

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* "Land" (plural: "Länder"): a state or country of the Federal Republic. The names and some details of the Länder are given in the footnote on the next page.

However Federal activity has been somewhat distracted by economic and electoral matters in the past year or so, and it remains to be seen how vigorously this interest in environmental conservation revives.

Present Controls

National

Responsibility for the regulations controlling air pollution is unevenly scattered between the Federal and Land governments.

The Bürgerliches Gesetzbuch (BGB - Federal Civil Code) protects the rights of the individual to enjoy his property. Under the Code, an aggrieved individual can take action in the courts to recover damages but this is no easy matter as the Code is rather general and imprecise. There are no Federal regulations safeguarding public health specifically against the effects of air pollution from all sources. According to the Constitution, the Federal Government has no legislative power to become active in this field. But there are indirect possibilities in so far as laws relevant to industry, commerce, and trade do lie within the powers of the Federal Government.

Footnote from page one

		Percent of working pop. in:			
Land	Pop. m. (1964)	Heavy Ind.	Serv's + Lt. Ind	Commerce Transport	Agric. + Forestry
Schleswig-Holstein	2.4	40	27	21	12
Freie- und Hansestadt Hamburg	1.9	37	28	33	2
Niedersachsen (a)	6.9	43	22	18	17
Freie Hansestadt Bremen	0.7	40	25	34	1
Nordrhein-Westfalen (b)	16.6	56	21	18	5
Hessen	5.1	50	22	18	10
Saarland	1.1	54	22	17	7
Rheinland-Pfalz (c)	3.5	42	21	18	19
Baden-Württemberg	8.3	54	20	14	12
Bayern (d)	10.0	46	20	15	19
(Berlin)	2.2	44	35	20	1
	58.7				

(a) Lower Saxony
(b) North Rhine Westphalia
(c) Rhineland-Palatinate
(d) Bavaria

The Federal Government provides a basis for the control of industrial emissions (but not domestic emissions) through the Gewerbe Ordnung (GewO - Industrial Code) of 4 August 1960. All industrial and commercial undertakings are bound by the provisions of the Industrial Code, Para 16 of which requires that an operating licence must be obtained for any plant which may be a hazard or nuisance to neighbours or the public.

The types of installation to which these provisions of Para 16 apply are listed in an official Ordinance (Verordnung über genehmigungsbedürftige Anlagen nach para 16 GewO vom 4 August 1960) published - as are all such official decrees - in the Bundes Gesetz Blatt (BGBl). The main types of installation include :-

- solid or liquid fuel furnaces with a rated capacity exceeding 800 000 cal/hr ($3\frac{1}{4}$m Btu/hr);
- chemical works and oil refineries;
- road asphalt plants;
- garbage or refuse disposal plants;
- test beds for engines and turbines exceeding 400 hp and for aero engines.

Under the Industrial Code, the Federal government also issued on 8 September 1964, the TALuft (Technische Anleitung zur Reinhaltung der Luft — Technical Directives for Air Pollution Control). Authorities granting an operating licence for a plant are obliged to follow these Directives, which are divided into general provisions and specific minimum requirements.

Under the general provisions, to qualify for a licence a new plant must be provided with such equipment for limiting or dispersing emissions as corresponds with the latest stage of technical development. The latest stage of technical development is determined from the codes of practice (Richtlinien) developed by the appropriate committees of the Verein Deutscher D.021-2
Ingenieure (VDI). It represents, not just technical feasibility, but practical installations which have proved successful in comparable plant under efficient management. The specific minimum requirements of the TALuft lay down what is needed for individual types of installation.

The resulting ambient pollution levels must not exceed relevant limits for the area around the plant. These are specified by the TALuft in terms both of emissions and of ambient air quality ("immissions"). Thus, maximum levels are given for plume colour and the dust burden of effluent gases from furnaces and crushing, screening and filling operations; ambient levels are quoted for dust, chlorine, nitrogen oxides, hydrogen sulphide and sulphur dioxide. The TALuft also contains directives for stack height calculation (also based on a VDI Richtlinie).

A more detailed discussion of the requirements of the TALuft is given in Appendix I.

Vehicle emissions are also controlled by Federal regulations. On 8 May and 14 October 1968, two decrees were published in the BGBl to amend the Strassenverkehrszulassungs Ordnung (Vehicle Licensing Regulations). The list of these decrees requires new cars now to be equipped with proper crankcase ventilation and sets a limit on carbon monoxide emissions at idle. The second decree will require new cars from Autumn 1970 to meet limitations on carbon monoxide and unburned hydrocarbon emissions as measured during a standard driving cycle. Both provisions can be modified to conform with the expected EEC pan-European proposals.

The Federal law "Gesetz uber Vorsorgemassnahmen zur Luftreinhaltung" of 17 May 1965 provides for Surveys of ambient pollution levels to be made in densely populated areas, with annual reports to the Bundestag.

Local

Since any Federal regulations pre-empt Land powers to regulate, regional statutory decrees have been introduced to control emissions and "immissions" from installations not governed by Federal rules. For example, local decrees regulate maximum emissions from oil-fired furnaces in the range 14000 - 800 000 cal/hr, furnaces which are not covered by the TALuft. Some even larger furnaces, eg in the Bundespost or in hospitals - which are outside the TALuft - may also be controlled locally.

These local decrees vary from Land to Land - as does concern about air pollution - generally according to the severity of the problem. Foremost in activity is the government of Nordrhein-Westfalen which, after making a number of surveys, has introduced an Immissionsschutzgesetz (Regulation for Protection Against Air Pollution, Noise, and Vibration) which, however, does not contain ambient air quality standards. Similar legislation has been enacted in three other Länder: Niedersachsen, Saarland and Baden-Württemberg. In the other six Länder and Berlin, air pollution control is achieved indirectly through provisions in the local building requirements (Bauordnung) or other regulations. D.401

The government of Northrhine-Westphalia has also introduced a "smog prevention plan" for the Ruhr Area for periods of temperature inversions when the atmosphere becomes stagnant. During the period between 15 October and 1 March each year, when these unfavourable weather conditions are most likely, the ambient levels of SO_2 are monitored by the Landesanstalt für Immissionsschutz... at sampling points in specified urban and industrial areas. If several of these reach a level of 2.5 mg SO_2/m^3 and unfavourable weather conditions lasting at least two days are predicted by the Meteorological Service, the first warning is issued. The second warning is D.402

issued when ambient levels reach 5.0 mg SO_2/m^3 and the weather conditions are expected to prevail for at least 24 hours. When these conditions exist, the operators of installations subject to special measures under the provisions of Para 25 of the Gewerbe Ordnung, or whose licences under Para 16 of the GewO contain this stipulation, are obliged to change to the use of low sulphur fuels or feedstocks until the situation improves.

Administration

The Federal responsibility for the control of air pollution through the Gewerbe Ordnung is assigned to the Ministry of Economics (Wirtschaftsministerium) but the views of the Ministry of Health (Gesundheitsministerium) are consulted in view of the implications of air pollution for public health. Legislation affecting vehicle emissions is made by the Ministry of Transport (Verkehrsministerium), again with the approval of the Ministry of Health.

However, the Federal authorities have no executive powers and enforcement of the Federal regulations, as well as of their own, falls to the governments of the Länder. Because of the varied nature of the Land air pollution controls, executive responsibility is assigned to various bodies, which report to different ministries (Construction, Health, Labour, etc.).

However much of the effective administration of the regulations
is carried out by two groups of public bodies, the Gewerbeaufsicht D.016
(Inudstry Supervision Administration) and the Gewerbliche D.017-9
Berufsgenossenschaften (Industrial Safety Assurance Organisation).
Both of these groups are assisted - as is industry also - by the
testing and advisory facilities of the "private" Technische D.020 etc.
Überwachungs-Vereine (TÜV - Technical Supervision Associations).

In North Rhine Westphalia, the Gewerbeaufsichtsämter (and the Bergaufsichtsämter for mines) report to the Arbeits- und Sozialministerium (Ministry of Labour and Social Affairs).

Federal and Land pollution control regulations are strong and precise, but their application is tempered by realism and a desire on both sides to achieve agreement. Legal prosecutions are not frequent. Indeed, a large degree of co-operation exists between government and industry, as witness the special roles of the TÜV's and the VDI. Where legislative control is difficult (for constitutional or for practical reasons), the government may ask for - and receive - a large measure of self-restraint. Regulations are generally applied in such a way as not to imperil the economic viability of an enterprise; for instance, older installations are permitted higher dust emissions than new ones (see TALuft), and improvements may be subsidized from various funds. On the other hand, the licensing of new installations may be delayed until they meet the full requirements.

Finance

In general, costs fall where they lie, Land research and supervisory establishments being supported from general taxation.

Trends

Current interests

Concern about air and water pollution has so long been a feature of Federal Germany's political life that new control measures can be introduced with confident initiative, as witness the introduction of the vehicle emissions controls without waiting for the pan-European EEC proposals to be finalised. At the Federal level, interest is now turning to the possibility of establishing fuel quality criteria (eg. of lead in gasoline or of fuel oil sulphur content, or of restricting the use of heavy oil fuels to large installations) to empower the Länder or municipal authorities to act. Thought is also being given to Federal limits for noise from equipment and for dust from road-stone and asphalt plants - regulations already enacted in Nordrhein-Westfalen. A further possibility is authority for municipalities to introduce industrial zoning. Co-operation with the Swedish Naturvårdsverk (Nature Conservancy Office) is close, especially by the Federal Ministry of the Interior.

However, a check to Federal initiative came with the recent economic crisis and from the change in party balance following the last election. Nor are the Land governments anxious for new Federal legislation.

Amongst the Länder, Nordrhein-Westfalen is predominant. With public and medical opinion pressing for clean air, the Land Ministry of Labour and Social Affairs are concerned to establish the current situation through measurements and survey, and to identify health hazards. A broad view is taken of the conflicting needs of natural environment and industrial economy.

Proposed controls

With the exception of the limit on vehicle emissions already enacted and due to come into force in Autumn 1970, no new Federal legislation is in preparation. German proposals to the Council of Europe for a reduction in lead in gasoline to 0.35 g/l over five years are not expected to lead to immediate legislation domestically.

There is no information of forthcoming Land controls.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

Germany being a federation of Länder, it is convenient to discuss first those organisations with all-Germany activities and secondly those with more local interests in the Länder. This division is not always clear-cut as some local organisations have national impact by reason of the scale of their activities or their reputation.

FEDERAL

The Federal Institute for Water, Soil and Air Cleanliness (WaBoLu - Institut für Wasser- Boden- und Lufthygiene) in Berlin, with a branch office in Düsseldorf, provides the Federal Health Board (Bundesgesundheitsamt) and local licensing authorities in the Länder with official advice on pollution matters based, in part, on practical experience. D.002
Test methods are also evaluated for use by the Gewerbeaufsichtsämte (Trade Supervision Administrations). Reports are published in appropriate journals. D.016

Technological information is co-ordinated by the VDI (Verein Deutscher Ingenieure - German Engineers' Association) which plays a very strong central role in collating and publishing the concensus of opinion of German technologists. The VDI was founded in 1856 as a society of all kinds of engineers and other technical experts to develop guidelines (Richtlinien) - recommended codes of practice for engineering operations, or standards of manufacture or installation for equipment or instrumentation. The Richtlinien vary in "weight" as the topic demands; some of the most significant deal with air pollution. While not in themselves mandatory, Richtlinien are not infrequently used by government as authoritative bases for legislation, in that they represent the best available technical advice on what is both technically possible and economically practicable. Hence the adoption of the advisory Richtlinien into the regulatory TALuft. D.021-2

The VDI has a present membership of about 60 000 individual members and 2 000 corporate sponsoring members (who provide the major part of its income). Although its headquarters are at Düsseldorf, there are 36 provincial branches throughout Germany. Its work is grouped into 28 technical divisions, one of which is the Kommission Reinhaltung der Luft (Clean Air Commission). The operating structure, procedures, membership and activities of this Commission are admirably described in its booklet published in October 1969 (qv). Some 39 sub-committees of experts of all kinds grouped under 6 main committees deal with all aspects of air pollution technology. D.021

Ideas for Richtlinien, originating widely, are screened by the Secretariat and distributed to appropriate existing expert groups - or a new group is created by invitation of known experts. Priorities are determined by the Board or Council in consultation with the expert group. Draft Richtlinien are published (in green) for general comment before the final version is printed (in white). The whole process (p30 of booklet) may take 1-5 years according to the complexity of the topic and the availability of expert knowledge. 78 Richtlinien have so far appeared (p31 seq) (Richtlinien are also being translated into English and published progressively by the Israel Program for Scientific Translations.*)

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* PO Box 7145, Jerusalem, Israel. US orders for copies through Daniel Davey and Co. Inc, 257 Park Avenue South, New York, NY 10010.

Proposals for further research are made by the expert groups, with suggested locations for the work. After approval by the Research Committee of the Commission, the Secretariat finds an appropriate source of funds and contacts the recommended research institute with the terms of reference. Research funds, approximating to DM 1m/Y, are obtained largely (~97%) from Federal and Land Ministries; the proportion which comes from the DFG (Deutsche Forschungs-Gemeinschaft - German Research Association) or from other industry groupings is small because most of the non-institutional research effort is made by industry itself and not under VDI sponsorship. A list of the current research projects sponsored by the VDI is given in the VDI booklet (p47 seq) with a bibliography of published reports (p65 seq).

The VDI-Kommission Reinhaltung der Luft also organises air conservation symposia and educational seminars. National three-day symposia, attracting many hundred German and foreign visitors, are held every fourth year in Düsseldorf, the most recent in October 1969. Other, smaller, symposia are held in various parts of Germany more frequently. Educational seminars are organised by the Educational Branch of the VDI for the training of field engineers in all aspects of engineering, air pollution control included.

The VDI has an extensive documentation centre and open library from which it prepares "Selecta", a new world-wide monthly abstract of significant air pollution articles (published by VDI-Verlag). Another periodical covering all aspects of air pollution control is the monthly journal "Staub-Reinhaltung der Luft" (also published by VDI-Verlag).

A second VDI commission deals with Noise Reduction (VDI-Kommission Lärmminderung). Rather smaller but organised in broadly the same way as the Clean Air Commission (see Annual Report), this Commission considers all aspects of industrial, domestic and traffic noise, and likewise prepares Richtlinien. Direct and indirect subsidies in 1968 totalled DM 220 000. Research projects in noise problems were initiated in 1968, and some two dozen are now in hand or being formulated (see Annual Report for details). D.022

Heading the activities of its regional member groups is the Hauptverband der Gewerblichen Berufsgenossenschaften eV (Central Union of the Industrial Safety Assurance Organisations Inc.). This body has set up a Dust Research Institute (Staubforschungsinstitut). D.018

Similarly, the Bergbau-Berufsgenossenschaft (Mines Safety Inspectorate) has set up a Silicosis Research Institute in Bochum. D.019
This Institute maintains contact with academic institutes concerned
with the same problems, notably the Medical Institute for Air Hygiene D.412
and Silicosis Research at the University of Düsseldorf.

The regional TÜV's (discussed further later) also have a central body, the Vereinigung der Technischen Überwachungs-Vereine eV (Federation of Technical Supervision Association Inc.) where policies are discussed and co-ordinated. This Federation publishes an informative monthly journal: "Technische Überwachung." D.020

The Deutsche Forschungsgemeinschaft (DFG - German Research Association) D.032+
is an important sponsoring route for industrial funds. With several
coordinating commissions (for instance, the Kommission zur Erforschung D.032
der Wirkungen luftverunreinigender Stoffe - Commission for Investigation
of the Effects of Air Pollution) the DFG sponsors various air pollution
research programmes, using money made available by industry, especially
money which could not easily be given directly for tax reasons. An
important project supported in this way, and carried out by different
institutes, mainly academic, in various parts of Germany, is a large
permanent survey of a wide range of air pollutants. Further money goes
to the Fraunhofer Society for the support of yet other research. D.030-1

German industry combines in the Bundesverband der Deutschen D.035
Industrie (BDI), which has a discussion group for environmental matters.
Practical questions are referred to the affiliated Institut D.036
fur Gewerbliche Wasserwirtschaft und Luftreinhaltung eV (IWL -
Institute for Industrial Water Economy and Air Conservation Inc.)
whose air pollution group is concerned with a wide variety of air
pollution problems. The IWL publishes the important conservation
monthly "Wasser, Luft und Betrieb".

Beyond these general industrial groupings are many trade associations with study groups concerned with aspects of air pollution closely related to their own activities. Most of these are concerned mainly with commercial questions, but amongst those with technical studies may be mentioned·-

Verein Deutsche Eisenhüttenleute (Association of German Iron Works Experts) with their Betriebsforschungsanstalt (Industrial Research Establishment) which co-ordinates air pollution investigations by the iron and steel industry and publishes in "Stahl und Eisen". D.037

Forschungsinstitut der Zementindustrie (Research Institute of the Cement Industry). D.044

Bergbau-Forschung GmbH (Mining Research Co. Ltd.) which studies flue gas desulphurisation processes. D.085

Such organisations are supported by numerous individual companies many with their own pollution investigatory or control activities. However, a large part of these individual companies' activities are co-ordinated by the trade associations or through the VDI (whose central role is not to be underestimated).

LÄNDER

As the extent of the air pollution problem and the level of corresponding activity varies greatly from Land to Land, the structure of this activity also varies greatly. Generally, however, an appropriate Land Ministry is responsible at government level, and this is assisted by a Land institute or research establishment which undertakes the practical work of survey and coordination. Enforcement is greatly assisted in several Länder by the testing and measuring work of the Technische Überwachungsvereine (TÜV - Technical Supervision Association), which enjoy a quasi-official position (see below). The central Deutsche Wetterdienst (German Weather Service) often enters the picture D.003 through its local offices when these provide meteorological information in connection with smog alert warning systems. Finally, each Land gains a supporting service of research and information from the many institutes at Technische-Hochschulen (Universities and Technical High Schools) carrying out studies into all aspects of pollution - causes, effects and abatement. The majority of these institutes are supported by grants from local and federal government, from the VDI, or from the DFG and its affiliates.

The TÜV's (Technische Überwachungs-Vereine), which occupy a rather special position in the control structure, merit explanation. Set up about 100 years ago by boiler owners at the request of local authorities to provide test certificates for boilers, there are now TÜV's in each of the principle industrial regions: Essen, Köln-Wuppertal, Munich, Stuttgart, etc. (though that in Kassel is a land authority, not a private organisation). All TÜV's provide an expert certification service for industrial equipment and installations, to which has more recently been added vehicle testing. The TÜV's obtain test results and interpret them. They also make recommendations based on their own expertise. But the implications are the concern of the appropriate responsible authority (eg. Strassenverkehrsamt for vehicle tests). Such work is also undertaken for the local Gewerbeaufsichtsamt and for the Berufsgenossenschaft, both for operational safety etc. and, in air conservation, for conformity to the requirments of the Gewerbeordnung para 16 (see p. D-3). For large industrial emitters (> 100 giga-cal), which are required to make their own continuous measurements of emissions, the local TÜV gives approval of the monitoring scheme and provides an instrument calibration service. Consequently, several TÜV's engage in instrument development and/or evaluation programmes, which can also include testing of pollution abatement devices (on cars, for instance). TÜV's publish annual reports describing work done, and also describing the organisation and its financing. The Vereinigung der TÜVe (Federation D.020 of TÜV's) provides a forum for the exchange of experience and statistical information, some of which is published in its monthly Journal "Technische Überwachung."*

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* A more complete description of the history and modern role of the TÜV's is given in Tech. Überwach. 10 (10) 339 (1969).

BERLIN

(No comment at present).

HAMBURG

Most of the environmental conservation activity in the Land and City of Hamburg centres on the Untersuchungsanstalt für Städtehygiene (Municipal Hygiene Evaluation Establishment). This large organisation is one of the four functions of the Hamburger Gesundheitsbehörde (Health Authority) which is a department of Hamburg's Senat des Innerns (Senate of the Interior) equivalent to the relevant "Ministry" of other Länder). The Anstalt is divided into five departments concerned respectively with water quality, sewage, occupational hygiene (medical matters, not air pollution), ambient radioactivity, and air and habitation hygiene. It is this last (Abteilung für Luft- und Wohnungshygiene which is most active in air pollution. Under its department head, Dr. K. Gräfe, regular surveys of sulphur dioxide and smoke are made in the Hamburg area, with occasional measurements of other pollutants as required for the application of the building regulations by the Land authorities, or for special research. D.201

Calculations of necessary stack heights are made (using the VDI Richtlinie) and comments made on proposed industrial and urban developments from an air conservation standpoint.

Close liaison is maintained with Hamburg University's Staatsinstitut für Angewandte Botanik (State Institute for Applied Botany) whose Dr. Garber has recently written a book on the effects of air pollutants on plants. D.203

SCHLESWIG HOLSTEIN

(No comments at present)

BREMEN

(No comments at present)

NIEDERSACHSEN

(No comments at present)

HESSEN

(No comments at present)

NORDRHEIN-WESTFALEN

The government of Nordrhein-Westfalen is very active in air pollution measurement and control. Responsibility for the control of industrial air pollution, and also for the coordination of the other Land Ministries concerned with air pollution, falls to the Arbeits- und Sozialministerium (Ministry of Labour and Social D.401 Affairs). Six Regierungspräsidenten (governmental districts), which simultaneously function as licensing authorities for the most important industrial plants, form the middle administrative level. At local level the supervision of air pollution control in the industrial field is exercised by 23 Factory Inspection Offices (Gewerbeaufsichtsämter) whose original tasks were problems of labour protection (such as accident prevention and industrial hygiene). The Factory Inspectorate is composed of 500 certified engineers and technicians, and is now equally concerned with matters of air pollution control. The Factory Inspectorate is assisted by the Landesanstalt für Immissions und Bodennutzungs- D.402 schutz (LIB - Land Institute for the Protection of Air and **Soil**)(see below), which is also the central office for the Smog Alert System in the Ruhrgebeit. Several further measurement institutes have been accepted by the Land Ministry for carrying out emission and immission measurements in various industrial plants.

The Landesanstalt (LIB) of Nordrhein-Westfalen with a staff of 450 people and extensive laboratories near Essen, is the largest such organisation in Germany. It is concerned with practical surveying and research within the area of Nordrhein-Westfalen. Under the direction of Prof. Dr. Hettche, six departments are responsible respectively for : (1) calculations, documentation and publication (in many journals as well as the LIB's own "Schriftenreihe"); (2) measurement techniques and surveillance of pollution (including both general and specific surveys); (3) techniques for pollution abatement; (4) effects of pollutants on plants and materials; (5) water and soil pollution; and (6) noise and vibration.

The air pollution control activities in Nordrhein-Westfalen and the organisation and work of the LIB are excellently described and illustrated in the "Blue Book" (qv) presented at the October 1969 Clean Air Congress at Düsseldorf.

The Rheinisch-Westfälischer-TÜV (Technischer Überwachungs-Verein - D.404 Technical Supervisory Association) at Essen is, as befits its location, also one of the most active of the TÜV's in air pollution matters. Its role has already been described; its organisational structure and activities are fully described in its Annual Report (qv). Air pollution activities include surveillance of industrial operations to confirm that they conform to the requirements of the operating licence, the Gewerbeordnung and the TALuft. The TÜV also keeps abreast of the latest measurement and abatement techniques.

The Land of Nordrhein-Westfalen, being highly industrialised,
also contains several industries and industrial groupings which
are active in air pollution. For example, the Ruhrkohlen-Beratung D.407
GmbH (Ruhr Coal Consulting Co. Ltd.) undertakes research into low-
smoke combustion in domestic stoves for application in the coal
consuming area of the Ruhr. Likewise, the Farbenfabriken Bayer AG D.423
("Bayer") makes surveys of sulphur dioxide and was involved in the
design of the Picoflux monitoring instrument. However, the line
between Land activity and activity on a Federal scale is not sharp,
especially as many of these firms and associations support national D.021
bodies such as the VDI, BDI, DFG, and so on. D.035
D.032

(No further comment at present)

RHEINLAND-PFALZ

(No comments at present)

SAARLAND

(No comments at present)

BADEN-WÜRTTEMBERG

Air pollution control is the responsibility of the Arbeits- D.701
und Sozialministerium (Ministry of Labour and Social Affairs).
Practical survey work is carried out by the Landesinstitut für D.702
Arbeitsschutz und Arbeitsmedizin (Land Institute for Occupational
Hygiene and Medicine) at Karlsruhe. The TÜV for the Land is at
Mannheim.

As forestry and agriculture are significant commercial activi-
ties in Baden-Württemberg, research stations concerned with these D.705-6
activities include the effects of air pollutants in their pro-
grammes.

(No further comments at present)

BAYERN

(No comments at present)

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GREAT BRITAIN

GENERAL AIR POLLUTION BACKGROUND

Geography

The United Kingdom of Great Britain and Northern Ireland comprises, with Eire, the land known as the British Isles. Topographically and geologically diversified, with most of the less-populated hilly areas concentrated in the north and west, these maritime and generally well-ventilated islands off the northwest of Europe support a comparatively crowded population of about 56m.

Mineral resources are extensive and varied - although, because of Britain's early industrialisation, several are now becoming commercially depleted; these include even iron and coal where geologically-fractured seams make working increasingly uneconomic. Nevertheless, coal still contributes largely to the energy resources, especially in electricity generation. Imported oil recently moved into first place in energy supplies. Even more recently, the discovery of large reserves of natural gas in coastal water has initiated profound changes in the energy pattern - as well as in the availability of special solid fuels for the remaining domestic demand and for the metallurgical industries through the ending of town-gas manufacture. There is also an important nuclear power generating capacity.

Other significant mineral-based industries are limestone and road-stone preparation, cement, sand and gravel, brickworks, china clay and potteries, and glass manufacturing. Iron and steel production is very large, and there is an important activity in lead, tin and copper smelting, as well as proposals to undertake aluminium smelting. Much of British industry is concerned with metal conversion - steel and aluminium rolling, leading to shipbuilding, car manufacturing, and the like. Other industries with relevance to air conservation include oil refining and heavy and fine chemicals manufacture.

The capital and commercial centre, London, is broad and densely populated; together with a location where winter-time fogs are common, the consequent high fuel consumption has led to notoriety in air pollution incidents, especially in the past when coal provided the major energy source.

In England, industry is heavily concentrated around Birmingham (the "cradle" of industrialisation), Nottingham-Derby, Manchester, Sheffield, Leeds-Bradford, Middlesbrough, and Newcastle-on-Tyne; in Wales, along the south coastal strip near Newport and Swansea; and in Scotland, around Glasgow and northeast of Edinburgh.

A well-developed agricultural and horticultural market is sensitive to the impact of air pollution, but forestry is less involved as it is mainly confined to the remoter hilly areas.

Political Features

Concern about all aspects of environmental conservation is lively throughout the British public scene: the government, the major political parties, individual politicians, the communications media and several societies are all pressing for action. Most of this activity recognises a long-term approach to the problems, including the costs involved.

A strong sense of cooperation in rational progress is evident. Improvement is generally achieved by agreement and appeals to social conscience. Where regulations exist, legal prosecution is rare, authorities preferring to keep this in reserve.

Present Controls

National

Common Law enjoins good neighbourliness on all citizens but it is usually difficult to demonstrate the proof of damage necessary for success. However, specific control of air pollution in England and Wales has a long history; an Act of 1847 had a section dealing with factory smoke. In 1863, the first "Alkali Act" was passed to deal with emissions from industrial processes. This legislation was consolidated and extended by the Alkali &c Works Regulations Act 1906 and by the Alkali &c Works Order 1966. Although oddly named, the regulations apply to emissions from practically all significant air polluting types of industries - some 56, known as the Scheduled Processes. The regulations require that:-

1. Scheduled Processes must be registered annually;
2. as a prior condition in the case of a first registration, the Scheduled Process must be provided, to the satisfaction of the Chief Inspector, with the 'best practicable means' for preventing the escape of noxious or offensive gases to the atmosphere and for rendering such gases harmless and inoffensive;
3. the 'best practicable means' must thereafter be maintained in good and efficient working order and must be operated continuously;
4. in the case of certain processes, upper limits are specified for the concentration of total acidity in effluent gases which may be discharged to the atmosphere.

Provision is made for the setting up and maintenance of an inspectorate (the Alkali Inspectorate) to administer the Act, and regulations are included relating to the registration and inspection of works, general procedure, penalties, etc. The Chief Inspectors are required to make an Annual Report to be laid before Parliament relating to the work of the Inspector. GB.005

The number of works registered at the end of 1968 was 1,793 involving the operation of 2,970 separate processes. A registration may vary from a small concern employing a few people to a large complex such as an oil refinery or an integrated steel works.

The Alkali Acts give the Inspectorate the right to prosecute registered firms which do not use the "best practicable means" to prevent the emission of grit, dust, fumes, smoke and gases and to render those necessarily discharged harmless and inoffensive. The Inspectorate decides, in the light of advancing technology, what the best practicable means for any process is, and the courts have long since held that the word "practicable" means not only technically possible, but also economically possible to that particular firm. The Inspectors do not demand that a firm should install arrestment plants costing so much that it would have to go out of business since, if they did, this fact would be a sufficient defence in court. Thus the possibility of improvement is indirectly related to the capital resources of the firm.

Emissions from processes or plant not covered by the Alkali Acts, and emissions from domestic and commercial furnaces are controlled by the Clean Air Acts of 1956* and 1968ø (which superseded earlier legislation on smoke dating from 1875 and 1926). These Acts in their essentials:-

1. set smoke emission limits for both domestic and industrial fuel usage:
2. limit grit and dust emissions from all non-domestic sized furnaces;
3. give powers to Local Authorities to require adequately high chimneys for furnaces in all new buildings;
4. give powers to Local Authorities to set up Smoke Control areas (subject to the approval of the Ministry of Housing and Local Government).

In these "smokeless zones" in the case of smoke emission it is a defence if an authorized fuel only is being burned. Regulations defining authorized fuels have been issued. These fuels are: anthracite, briquetted fuels carbonized in the process of manufacture, coke, electricity, gas, low temperature carbonization fuels and low volatile steam coals; liquid fuels are not included. For domestic premises Local Authorities may make a grant towards the cost of converting grates etc., to appliances suitable for smokeless use. The Authority may recover part of the grant from the central Exchequer normally the cost of conversion will be borne by owner or occupier 30%: Local Authority 30%, Exchequer 40%.

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* Northern Ireland separately in 1964.

ø Scotland separately in 1968

The Housing Act 1964 and the Building Regulations 1965 also contain provisions for clean air. New buildings can be required by Local Authorities to be equipped with approved smokeless heating and cooking appliances. Equally, Local Authorities can designate as unsuitable those appliances for which proper fuels are not fully available in the area.

The Public Health Act 1936 also provides a basis for local action, especially where public hygiene is endangered.

Regulations affecting emissions from all types of vehicles are known as "The Motor Vehicles (Construction and Use) Regulations 1966". These require that every motor vehicle shall be so constructed that no avoidable smoke or visible vapour is emitted. Moreover, any excess-fuel device on diesel vehicles must be inoperative while the vehicle is moving. Most vehicles are subjected to regular annual or biennial inspection, but this does not yet include tests of emissions.

Local

All local controls on air pollutant emissions are, with very few exceptions, based on the application of the Smokeless Zone and Chimney Height provisions of the national Clean Air Acts. The first of these is described above.

The second concerns the obligation that a new or enlarged heating installation must be equipped with a chimney of a height approved by the Local Authority. To help Local Authorities and others to decide on this height, the Ministry of Housing and Local Government has issued a "Memorandum on Chimney Heights". This document sets out a simple method of deriving the recommended height from the amount of flue gases to be emitted, including the sulphur dioxide content; neighbouring buildings, local topography and existing pollution are also taken into account.

Applications for approval of new installations are examined both by the Local Authority's technical officers (Public Health Inspector or Smoke Inspector) and by the Planning Committee. At the latter stage, aesthetics may limit the chimney height and hence, indirectly, the type of permissible fuel and its sulphur content.

Exceptionally, the City of London has a limitation on liquid fuel viscosity of max. 220 sec. Redwood I, and Manchester Corporation sets a limit of 1% sulphur on all fuels for municipal use.

Administration

The application of the provisions of the Clean Air Acts is largely the responsibility of the Local Authorities, especially as regards the designation and operation of the "Smokeless Zones". The officer most concerned is the Public Health Inspector, in some areas assisted by Smoke Inspectors. For air conservation work, Local Authorities are responsible to the Ministry of Housing and Local Government in England, to the Secretary of State for Wales, and to the Secretary of State for Scotland.

The work of the Public Health Inspector is similar to that of
the Alkali Inspectorate (which reports directly to the same central GB.005
authorities). For new premises and plant, plans are examined, discussions held with management, their engineers and architects, and advice given on how the clean air legislation can be complied with. For existing plant, the method is regular inspection, study of plant methods and examination of equipment. If local complaint is made, a special study will be carried out and local measurement of emissions may be made. The policy is one of advice and assistance with the threat of legal action used as a final resort where cooperation cannot be secured.

Occupational safety and hygiene are the responsibility of the
Factory Inspectorate, which reports to the Department of Employment GB.040
and Productivity, a central government department formerly known as the Ministry of Labour.

Conformity with diesel vehicle smoke regulations is enforced by Inspectors of the Ministry of Transport.

Finance

Each organisation bears its own costs.

Trends

Current interests

There is increasing evidence of interest in environmental pollution control amongst public and politicians alike. The creation of
a separate government department, the establishment of the Natural
Environment Research Council, the publication of pamphlets, political GB.031
party manifestoes and a very recent White Paper are symptomatic.

Following the technical opinions of the Warren Spring Laboratory GB.039
of the Ministry of Technology and the Air Pollution Unit of the Medical Research Council, the government continues to concentrate on the GB.034
reduction of smoke emissions from domestic, commercial and industrial sources. The very considerable improvement in the atmospheric conditions in most large British towns is believed to be a consequence of the previous application of this policy. Much less significance is attached to pollution by sulphur oxides, especially from the medical point of view; the cost of damage to materials is balanced against the undoubted national expenditure for achieving lower sulphur oxides emissions.

Concern about vehicle emissions concentrates on diesel smoke, traffic "fumes" (smell), and noise.

There is a growing recognition that "personal" air pollution from tobacco smoking is a more serious threat to national health than any other air pollution source.

Proposed controls

A government White Paper entitled "The Protection of the Environment: the Fight against Pollution" was issued in May 1970. Reviewing all aspects of environmental conservation, in air quality conservation it proposes government action* for still more effective domestic and industrial smoke control, and an extension of the ambit of the Alkali Inspectorate and a tightening of standards. (Outside the White Paper, some local limitations are foreseeable on the sulphur content of fuels burned in major conurbations, such as the centre of London).

Automotive pollution is covered by an intended strengthening of regulations against diesel smoke emission, and by regulations requiring new cars to be fitted with "breathing" devices which will feed the crankcase emissions back into the air intake to the cylinders. Referring to the standards proposed by the Economic Commission for Europe, and its requirement to reduce carbon monoxide emissions by 10% by improvements to the carburettor, the White Paper states that "there is in fact no evidence that the carbon monoxide in our streets has any adverse effects on health or environment". The intention is recorded to keep under review the question of lead levels in petrol. Proposed legislation also covers noise from vehicles and aircraft.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

The control of environmental pollution in Britain is diffused through a dozen government departments. For air quality conservation, those mainly concerned are: Housing & Local Government, Technology, Transport, Agriculture, Social Services (health), Board of Trade, (factories), and the Secretaries of State for Wales and Scotland. Coordination is effected through an Inter-Departmental Committee, which GB.001 includes non-government observers. However, in October 1969, the Government also established a Secretary of State (Mr. A. Crosland) with special responsibilities for the environment . He has set up a "Central Unit" composed mainly of his own scientific staff to assist GB.006 in coordinating national and governmental research concerned with the problems of environmental conservation. In addition, a permanent Royal Commission on Environmental Pollution was established under GB.002 the chairmanship of Sir Eric Ashby to advise on all aspects of national conservation activity. This Commission will report publicly.

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* The change of government following the June 1970 elections may change the emphasis of some of the proposals but is unlikely to make a significant change in direction.

The new government may change this arrangement.

Two other coordinating bodies, resulting from the requirements
of the relevant Clean Air Acts, are the Clean Air Council and the GB.003
Clean Air Council for Scotland. These are administered respectively GB.004
by the Ministry of Housing & Local Government and by the corresponding
Scottish Development Department. Members include representatives
of appropriate ministries, local authorities, interested organisations
(eg. NSCA), and significant industries - coal, electricity, oil, steel GB.101
etc.

Emphasis on local government action against pollution is evident
from the phrasing of the Clean Air Acts. Several Regional Clean GB.011-19
Air Councils (Etc) have been established, especially in the "black
areas" where industrial air pollution has long presented problems.

The disastrous London Smog of 1952, besides being the prime
initiator of the Clean Air legislation, also provoked the establishment
of the National Survey of Air Pollution. This has involved
measurements for more than a dozen years by some 500 Local Authorities
at 1200 sites throughout Britain. The work of the National Survey is
coordinated through the Standing Conference of Cooperating Bodies GB.029
(SCCB) which is administered by the Warren Spring Laboratory of the
Ministry of Technology. The Laboratory staff prepare digests of the
National Survey data and present semi-confidential reports on trends
to the SCCB. The SCCB, also open to members from interested industries
(though these remain a small minority), provides a valued form for the
exchange of opinions between Local Authorities and Government.

In view of their importance in the application locally of the
requirements of the Clean Air Acts, the Association of Public Health GB.068
Inspectors (APHI) is another significant coordinating body through
which hygiene aspects of control in particular are well aired.

Weather measurements and studies of turbulence and diffusion
processes are made by the Meteorological Office and at several university GB.032
departments, especially Imperial College, London (Prof. R.S. GB.121
Scorer), Sheffield University (Prof. Alice Garnett), and Edinburgh GB.135
University (Dr. A.J. Crosbie). Projects on air flow around buildings GB.116
and in urban areas are being undertaken by the Building Research GB.036
Station (Ministry of Technology) and at Edinburgh University. GB.114

Several other Ministry of Technology laboratories have research
activities more or less related to air quality conservation problems. GB.043-045
These include NGTE, NPL and NEL.

Enforcement of the Alkali &c Acts is the responsibility of the
Alkali Inspectorate, reporting to the Ministry of Housing & Local GB.005
Government and the Secretaries of State for Wales and Scotland. The
Chief Alkali Inspector, Mr. F.E. Ireland, has a staff of 24 inspectors,
all of whom have a scientific training and extensive technological
experience. The Alkali Inspector formulates broad general
policies in respect of works and processes after staff discussion and
in the light of technical knowledge, industrial experience and economics.
This sometimes involves setting up working groups with

representatives of the industry concerned, their research association, and members of the Alkali Inspectorate. Standards of emissions may be decided upon and the support of industry is encouraged in enforcing the standards amongst members of that industry, especially through the industry association (see below).

Surveillance for conformity to factory safety and occupational
hygiene regulations comes into the area of the Factory Inspectorate, GB.040
in particular the Chemical Branch. In practice the control of materials
hazardous to industrial workers often involves considerations
about the possible effect on the community in the neighbourhood of
the factory, and this involves the Public Health Inspector of the
Local Authority.

Samples of potentially hazardous materials taken by the Alkali
Inspectors or the Factory Inspectors and requiring analysis are sent
to the Laboratory of the Government Chemist. This is the official GB.042
reference laboratory for Britain and is required to have the broadest
capabilities.

Medical research into the significance of air pollution is undertaken
by the Medical Research Council, whose Air Pollution Unit under GB.034
Prof. P.J. Lawther has undertaken epidemiological and other research
into the occurrence and effects of various pollutants (including smoke,
sulphur oxides, carbon monoxide, nitrogen oxides and lead) and advises
the Government accordingly.

Technical research for the Government is the responsibility of
the Ministry of Technology. Studies of the air pollution situation
in Britain and evaluation of conservation measures is carried out at
the Warren Spring Laboratory (WSL) which, as indicated above, has GB.039
close links with other Ministries and with Local Authorities. It
maintains contact with public and private research organisations
active in air conservation work. It is represented on the Committee
guiding the air pollution research of the Atomic Energy Research GB.070
Establishment (AERE). At present, AERE is studying the atmospheric
chemistry of industrial and natural mists.

A large number of industrial and professional associations
exists in Britain; quite a few have research laboratories whose practical
work is supported jointly by member companies. Some of these
are: the British Iron & Steel Research Association (BISRA), the GB.053
British Coal Utilisation Research Association (BCURA) and the British GB.050
Ceramic Research Association; this last association deals with the GB.052
problems of brick and pottery manufacture. The Heating & Ventilation
Research Association (HVRA) tests domestic heating appliances, GB.056
including work for the DOBETA, the Domestic Oil Burning Equipment GB.058
Testing Association, a group set up as an independent body by the major
oil companies.

In air quality conservation matters, the oil industry's association,
the Institute of Petroleum (IP), is primarily an opinion- GB.055
coordinating body. It has no research facilities but undertakes
practical work in the laboratories of member companies in cooperation
with other organisations (eg. the Society of Motor Manufacturers
and Traders, SMM&T) and CONCAWE. X.008

The IP's association with SMM&T is formalised in the BTC -
British Technical Council of the Motor and Petroleum Industries. GB.061
This is an important opinion-forming group, with committees and
working groups for several matters of common interest to the two
industries; three working groups organise cooperative work on
various aspects of vehicle emissions.

The motor manufacturers also have an association, whose work
includes research on emissions. This is MIRA - the Motor Industry
Research Association, well-equipped with high-speed and other test GB.060
tracks, as well as laboratory facilities. MIRA also provides
administrative services for BTC.

Many individual industrial organisations are active in air
pollution studies. These include especially the oil companies: Esso, GB.082-7
BP, Shell, Mobil; the vehicle manufacturers: BLMC, Rolls-Royce, GB.072-9
Ford, Vauxhall, Chrysler UK; and related companies, such as GB.077-81
Associated Octel, Joseph Lucas, Ricardos, and so on.

The National Coal Board (NCB) is studying the reduction of GB.089
smoke and sulphur oxides emissions. The Central Electricity Gener-
ating Board (CEGB) and its Laboratories (CERL) undertake surveys GB.090-1
around power stations and research on improved dispersion through
tall stack design.

Nearly 50 different projects are under way at British Universities and Polytechnics, most on slender budgets and loosely coordinated through the Department of Education and Science. Some of these programmes are mentioned above; others include work on medical and botanical aspects in appropriate departments.

Government support of university research falls to the Science
Research Council of the Ministry of Education and Science. Other GB.030
supports for such research comes from such bodies as the Natural GB.031
Environment Research Council (NERC) and the nationalised Gas Council, GB.095
as well as industry associations and individual companies.

Increasing interest in environmental conservation is reflected
in the number of professional societies who have discussion groups for
the subject: the Royal Institute of British Architects (RIBA) and GB.108
the Royal Society of Arts to name only two. GB.103

A private organisation of considerable influence is the National GB.101
Society for Clean Air (NSCA). Founded in 1899 as a Smoke Abatement
Society, the NSCA has a current membership of about 1300, comprising
local authorities, firms and companies, and individuals. It has ten
regional groups, organises annual conferences (with papers presented
by Government and industry speakers) and publishes a quarterly journal
"Smokeless Air" and a "Clean Air Year Book" containing a digest of
national air quality conservation information.

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ITALY

GENERAL AIR POLLUTION BACKGROUND

Geography

It has often been said that there are two Italies: the industrial north and the impoverished south (the Mezzogiorno), but the lines of this distinction, once so starkly true, are slowly growing less clear with the development of industry in Sicily, Bari, Taranto, Naples, and so on, under the guidance and assistance of the Government fund: Cassa per il Mezzogiorno. For the time being, however, it remains true that potential sources of pollution are concentrated in the north, especially in and around the Po Valley, notably Milan.

Italy has a rapidly increasing population which is at present about 54m. For its area, the country is densely populated because so much of it is mountainous. The principal towns (north to south) are:-

Milan	(Milano)	1.7m
Turin	(Torino)	1.1m
Genoa	(Genova	0.8m
Venice	(Venezia)	0.4m
Bologna		0.5m
Florence	(Firenze)	0.4m
Rome	(Roma)	2.5m
Naples	(Napoli)	1.2m
Bari		0.3m
Palermo		0.6m

Rome is the political and commercial capital.

The most important economic activity in Italy is agriculture; 40% of the population devote their energies to this. Industry occupies 30% of the population, but the distribution is very uneven, for more than a third of the industry activity takes place in the north, in the area between Genoa, Turin, Milan and Venice where hydroelectric power is available and transport is easier.

Bauxite or iron pyrites are the only extensive mineral resources, though mercury, sulphur, lead and zinc are worked. There is very little indigenous coal or oil, and the natural gas resources of the Po Valley are nearing exhaustion. However, it is thought that further gas or oil may lie off the Adriatic shore.

Aluminium plants are active at Porto Marghera (Venice), Bolzano and Mori (Lake Garda); steel is produced at Genoa, Turin, Milan, Cogne (Val d'Aosta), Portoferraio/Piombino, Terni and Naples. Much of the rest of Italian industry is based on conversions motor manufacture (Turin), ship building (Genoa), textiles, chemicals and light engineering (Milan, Naples). Because of the pattern of fuel resources, industry

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makes considerable use of electrical power.

Domestic and commercial heating is largely by oil or electricity. Until recently, special light fuel oils were extensively used for these applications, leading to air pollution problems with particulates or sulphur oxides. A change to gas oil for domestic and similar heating is part of the new clean air legislation.

Political Features

Interest in and concern about air pollution in Italy has increased appreciably since 1966. All the communications media keep the public informed of major events, and most of the administrative and political bodies now consider air pollution control, prevention or abatement as primary problems for solution.

Citizens' groups for air conservation are to be found in many of the larger towns. The most significant, "Italia Nostra", has been I.086 very active in the Milan Clean Air campaign, which was developed through seminars, conferences, etc. The local press supported this and the public was invited to sign a document, made available at several public sites in the area, supporting the "Italia Nostra" activity.

The press, local administrative and political bodies, civil groups and public opinion play a growing role in influencing decisions for the installation and/or expansion of industrial works, power plants, refineries, etc, in the light of their air pollution potential. At present, petroleum refineries and petroleum problems are widely identified among the important sources of air pollution; for the time being, other industrial emissions and vehicle emissions receive less attention, possibly because they are more diverse and appear to present greater difficulties for control.

Present Controls

National, Local

The Italian Civil and Penal Codes contain sections enjoining "good neighbourliness" upon individuals and organisations but, as in other countries, these provisions are largely ineffective in practice. Local legislation is possible under the public health laws, and Milan had an ordinance on this basis to control fuel quality for certain applications (now superseded by the national Regulation on Domestic Heating).

The effective legislation concerning air pollution is contained in Law No.615 issued on 13 July 1966 under the title "Provvedimenti contro l'Inquinamento Atmosferico" (Provisions against Air Pollution) and published in the "Gazzetta Ufficiale" of 13 August 1966. The structure and principal features of this "framework" Law are discussed below and summarised in Appendix 1.

The technical aspects of this Law are being defined through three regulations concerned respectively with Domestic Heating, Industrial, and Vehicular Emissions. The regulation concerning Domestic Heating Emissions has already been published (Supplement of 9 January 1968 to "Gazzetta Ufficiale"), but the two other regulations are still in preparation. The status and principal provisions of these regulations are outlined below and in Appendix II.

Under Law 615, Italian territory is grouped by urban population into three categories: Zone A, comprising moderate-sized towns in the Centre and North, and rather larger areas in the South; Zone B, comprising the largest towns; and the remainder. The communes falling into the A and B categories were identified in a Ministerial Decree of 23 November 1967, but provision is made for further changes of classification.

The division into zones has implications for the types of fuels permitted to be burned in various size-classifications of heating plants in these zones. In general, the regulations set limits on the sulphur contents of the permitted fuels (and on the viscosities of liquid fuels). A further significant effect has been the requirement to convert domestic heating units to gas-oil firing from the light residual fuel oil previously burned for taxation reasons (an impost repealed in 1968), but although the domestic heating regulation became officially effective on 9 July 1968, it is still not fully operative because the Fire Brigade and Regional, Provincial and Municipal authorities lack manpower to inspect and approve installations.

Administration

As indicated in Appendix I, the early Articles of Law 615 concern the establishment of a Central Commisssion and of Regional* Commissions for air pollution; the constitution and responsibilities of these commissions are shown in Appendix III. These Commissions are responsible for advising central and regional health and administrative authorities in all air pollution matters. Within the present Provinces, the Laboratorio Provinciale di Igiene e Profilassi (Provincial Laboratory of Hygiene and Preventive Medicine) is the official body charged with responsibility for all the analytical work required in the control of air pollution. Hitherto, several Municipal Hygiene Offices have undertaken this survey work (as for example, in Milan) but a changeover is now in progress. These Municipal Hygiene Offices remain responsible for health aspects of pollution. The enforcement of the air conservation regulations, regarding inspection and licensing of heating plant, fuels, safety and so on, falls to the local Vigili del Fuoco (VV. FF- Fire Brigade), an independent body responsible for dealing with fires, building accidents, floods, etc which takes responsibility from the Divisione dei Servizi Anti-Incendio e delle Protezzione Civile of the Ministero degli Interni (Ministry of the Interior).

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* A new Law to establish 16 Regions in place of the existing 90 Provinces was recently approved, and administrative bodies are now being appointed. The newness of the Regional organisations and the time needed for them to establish their (air pollution) responsibilities accounts in some degree for the present scattered nature of air pollution activities in Italy.

The names of the 16 Regions are:- Trentino-Alto-Adige, Valle di Aosta, Liguria, Lombardia, Veneto, Emilia-Romagna, Toscana, Lazio, Campania, Abbruzzo, Molise, Puglia, Calabria, Basilicata, Sardegna, Sicilia.

Trends

Current interests

As indicated above, considerable effort is currently being expended in establishing the administrative organisation required under Law 615 and in implementing the requirements of the Heating Emissions regulation. As the latter reach down to all but the smallest installations, a large proportion of the Italian population is directly involved. Despite the problems, especially in dealing with the numerous small domestic units, improvement in air quality is expected to be quickly remarkable.

At government level, interest continues in controlling industrial and vehicle emissions, as the following Section shows.

Proposed controls

A draft regulation for Industrial Emissions was prepared in July 1969 by the Direzione Generale del Igiene Pubblica (Department of Public Hygiene) and has been submitted to a wide range of government and industrial organisations for comment. I.003

The major features of this draft Regulation are summarised in Appendix IV. They include a list of the major pollutants, with proposed limits for daily average and 30-minute peak ground level concentrations. Criticism has been made that some limits are unrealistically low, and also that required means of abatement are too rigidly specified. These comments will be considered further by the Department of Public Hygiene before the Regulation is submitted to the Government for final approval.

As regards Vehicle Emissions, the Italian Government has already stated their intention to accept the proposals of the European Economic Commission (EEC), now in final draft, to limit carbon monoxide and hydrocarbon emissions measured during the European Driving Cycle.

More immediately, it is likely that a progressive reduction will be required for carbon monoxide emissions at idle.

Technical regulations to limit diesel engine smoke emissions have also been drafted. These are intended to apply to both new and existing vehicles, and provisions will be made for engine performance inspections.

Time table

The Industrial Emissions Regulation is not likely to be published in its final form before the middle of 1970, and it is probable that a further year will be permitted before its provisions come into force.

The Vehicle Emissions Regulation may be ready for publication early in 1971, but there is no indication of the date of its coming into effect.

The Diesel Smoke Regulation is expected to be published before the end of 1970.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

Under the new Law, the key organisation is undoubtedly the
Commissione Centrale contro l'Inquinamento Atmosferico (Central I.001
Commission for Air Pollution), together with its attendent Regional I.002
Commissions. As indicated by their membership and responsibilities (listed in Appendix III), these Commissions comprise a wide range of knowledge and experience. Their role can be expected to grow further with the evolution of the technical Regulations within Law 615.

The legislative, technical and hygiene aspects of air pollution are the responsibility of various groups and departments reporting to the Minister of Health; a "chart" of these organisations is shown in Appendix V. The Istituto Superiore di Sanità (Upper Health Institute) advises the Minister directly on all technical and health matters, and has several well-equipped laboratories covering many
aspects of hygiene. Its Laboratorio di Ingegneria Sanitaria (Health I.004
Engineering Lab.) includes air pollution, noise and radioactivity amongst its functions. In effect, this Laboratory is the principal governmental laboratory for air pollution hygiene, though much supporting work is carried out in University institutes.

In the Ministry of Health, the administrative department responsible for preparing the legislation and regulatory controls on air pollution
is the Direzione Generale dell'Igiene Pubblica (Department of Public I.003
Hygiene). This Department coordinates the views of other Ministries and is assisted - as are other Health Departments - by the large
Consiglio Superiore di Sanità (High Council for Health), an expert I.005
consultative body attached to the Ministry of Health, with one Section for air pollution matters.

Air pollution matters of local concern are handled by the
Commissioni Regionali contro l'Inquinamento Atmosferico (Regional I.002
Commissions for Air Pollution), set up under Law 615 and whose
constitution and functions are described in Appendix III. Within
the emerging Regions, interest in and responsibility for air pollution
activity has hitherto arisen within the hygiene department
of the Comune (Municipality). Naturally, the greatest activity has
occurred where problems have been most evident: Milan, Turin, Genoa,
and so on. However, the Provincial Laboratories now have official
responsibility for surveys and measurements of air pollution under
Law 615

The municipal hygiene departments also assist with abatement measures
and, in the past, in the application of the local ordinances designed
to protect public health. Thus, in Milan, the very active *Ufficio* I.025
di Igiene e Sanità del Comune di Milano (Hygiene Department of Milan
Municipality) has long undertaken air quality surveys in the Milan
urban area. It is currently assisting the local Vigili del Fuoco
(Fire Department) in inspecting domestic heating installations and in
enforcing the requirements of the Domestic Heating Regulation. The
Sezione IIbis: Fisica Sanitaria (Health Physics Section), responsible
for drinking water and air and water pollution, has recently been
enlarged and its work is soon to be reallocated among two new
divisions: one for air and water pollution of domestic and vehicular
origin, and the other for pollution from industry.

This municipal department is now assisting the offically respons-
ible *Laboratorio Chimico Provinciale di Milano* (the Milan Province I.024
Chemical Laboratory) in setting up an SO_2 Survey network in the area,
based on Philips telemetering instruments and the Rijnmond experiment. NL.C08
Concentrations and size ranges of ambient particulates are also being
measured and analysed from continuous filter strips.

Research and other fundamental studies of air pollution problems are undertaken in a small number of national institutes, at a large number of university institutes, and by a few industrial associations

Among the national institutes, one is pre-eminent. The
Consiglio Nazionale della Ricerche (CNR - National Research Council) I.006
is responsible for coordinating and supporting many aspects of
research in Italy. Its own *Laboratorio sull'Inquinamento Atmosferico*
(Air Pollution Laboratory), at present located in Rome University,
coordinates all Italian air pollution research and represents the country
on international groups. It promotes education in air quality con-
servation, and is attempting to standardise such matters as monitoring
equipment and techniques.

CNR supports the activities of other laboratories: for instance
the Istituto di Fisica dell'Atmosfera (Institute of Atmospheric I.007
Physics) which studies ambient radiation; the Istituto Nazionale Motori I.008
(National Engines Institute) at Naples, which examines vehicle emissions
detoxing systems; and the Stazione Sperimentale per i Combustibili I.011
(Experimental Fuels Station). This last is a large and very active
research laboratory and documentation centre, one of eight experimental
stations reporting to the Ministero dell'Industria, del Commercio
e dell'Artigianato (Ministry for Industry, Commerce and Small
Industries). Its activities include research on flue gas cleaning
and fuel oil desulphurisation (it is the only Italian organisation
tackling the latter), and studies of vehicle exhaust emissions,
all directly supported by CNR. It undertakes commissioned work on
fuel quality, and is also cooperating (with the Milan Laboratorio I.024
Chimico Provinciale) in a survey of urban pollution organised by
Esso's Research Centre in England. GB.083

In the academic world, conservation problems are handled at most Universities in the Istituto di Igiene (Hygiene Institute), but occasionally the faculties of Engineering or Chemistry may be involved. At least half of the 21 State and 5 'Free' universities in Italy have a Hygiene Institute with air pollution activities but, as with official or industry activity, interest in air pollution tends to be concentrated in those areas where the problems are most apparent.

At the Istituto di Igiene dall'Università di Genova, Prof. I.064
Petrilli has long enjoyed an international reputation for his work
on ambient air pollution and its effects on health; studies of
carbon monoxide in road tunnels and in drivers' blood have recently
been completed.

Prof. Zurlo of the Istituto di Medicina del Lavoro (Institute I.068
of Occupational Hygiene) at Milan University has investigated fluorides
and acrolein in connection with workers' health.

Prof. Seppilli of the Istituto di Igiene del'Università di I.075
Perugia has measured the concentrations of polycyclic hydrocarbons in
confined spaces, and Prof. Valori of Rome University's Istituto di I.076
Igiene has studied the emission of several different polycyclic hydrocarbons from car engines under various conditions. (Related
investigations are also in hand at the Stazione Sperimentale per i
Combustibili - I.011.)

At the Istituto di Fisica Tecnica (Institute of Technical I.078
Physics) at Trieste University, Prof. Finzi-Contini has made studies
of the natural decay of sulphur dioxide and has also prepared a
computer model of atmospheric diffusion. Similar work on the
atmosphere is being carried out by Prof. Santomauro at the
Osservatorio Meteorologico di Brera (Brera Meteorological Observatory) I.070
in Milan.

Many university professors provide a consultancy service I.081
for industry. Prof. Padovani (now retired from the Stazione I.082
Sperimentale per i Combustibili) and Prof. Rigamonti (also retired,
from Turin Polytechnic), Prof. Petrilli (Genoa Hygiene Inst.),
Prof. Ferraiolo (Genoa Chemical Plant Institute), Prof. Santomauro
(Brera) and Prof. Finzi-Contini are particularly to be noted.
Prof. Liberti and Dr. Cantuti of the Analytical Chemistry Institute I.077
at Rome University have close connections with CNR (I.006).

The views of Italian industry are partly coordinated through
CONFINDUSTRIA, the general confederation of non-nationalised I.041
companies, but nationalised industries channel their opinions
through the responsible Ministry.

Probably as a result of public and government interest in the
potential for pollution in the refining and utilisation of oil
products, the oil industry is both active itself and associated
with a number of active organisations. Air quality surveys have
been made around most Italian refineries, usually with the assistance
of one of the consultant professors mentioned above. CUNA (Comitato I.046
Unificazione Nazionale Autoveicoli - National Committee for Vehicle
Standardisation), supported jointly by the oil and motor industries,
correlates fuel specifications, vehicle emissions test procedure, and
similar matters.

The Unione Petrolifera (UP - Petroleum Industry Association) is I.050
an information group which also provides a means of coordinating
oil industry opinions. A working group is reviewing sulphur dioxide
monitoring techniques with a view to proposing a standard procedure
for official recognition. Vehicle emission aspects are left, however,
to CUNA and to ANFIA (Associazione Nazionale fra Industria Automobi- I.049
listichi- National Association of the Automobile Industry).

An interesting development is a research agreement between I.055
Fiat, ENI, Esso and Mobil* to undertake a pooled investigation on the
control of vehicle emissions: i.e. car detoxing systems and fuel
quality effects, and also the air quality in three significant towns
(Milan, Rome and Turin), for which the Institute of Hygiene of Rome
University (I.076) is the agent.

Esso Standard Italiana is also undertaking studies of ways of I.054
reducing emissions from automobiles, as well as making surveys
around its refineries and cooperating with Esso Petroleum Co. Ltd.
(GB....) in their urban pollution study (in Italy in Milan - See also
I.011 and I.024).

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* Fiat - Fabbrica Italiana Automobile Torino I.053
ENI - Ente Nazionale Idrocarburi I.052
Esso - Esso Standard Italiana I.054
Mobil - Mobil Italiana

Other industries are now beginning to develop air pollution
groups. Thus ASSCHIMICI (Associazione Nazionale dell'Industria I.044
Chimica - National Assocation of the Chemical Industry) is proposing
to establish an advisory committee for air pollution questions.

Social pressure groups exert their greatest activity in the Milan
area, even the country-wide "Italia Nostra". Two local groups are I.086
"Lega Italiana" (Lega Italiana contra i Fumi ed i Rumori - Italian I.085
League against Smoke and Noise) and CRIAL (Centro Regionale Inquinamento I.087
Atmosferico Lombardia - Regional AP Centre of Lombardy).

APPENDIX A

AIR POLLUTION LAW 615
STRUCTURE AND MAJOR FEATURES

Approved: 13 July 1966
Published: 13 August 1966
Effective: 13 February 1967

The Law contains 7 Sections comprising 27 Articles divided as follows:-

S.I Art. 1-7	General arrangements	Application - division of National Territory into Zones - establishment and functions of Central and Regional Commissions - provisions for making surveys of AP.
S.II Art. 8-10	Heating plant	Requirements for heating plant >30 000 k.cal/h - regulations for construction and modification - approval by Fire Dept., appeal to Prefect, penalties.
S.III Art. 11-14	Fuels	Fuel types and characteristics permitted in the various Zones for plant of various heating capacities - records, appeals and penalties.
S.IV Art. 15-19	Operation and Control	General operating requirements - licences for plant >200 000 k.cal/h/unit, and penalties - records, supervision of fuels and emissions, penalties.
S.V. Art. 20-21	Industries	General requirements for emission control for various industry classifications - supervision, penalties, cessation of operation, responsible authorities - implications for town planning.
S.VI Art. 22-24	Motor Vehicles (Otto and Diesel)	General requirements - responsible authorities - penalties - periodic testing.
S.VII Art. 25-27	Further arrangements	Provision for detailed regulations - census of heating plants - responsibilities of Fire Depts.

APPENDIX B

STATUS OF AIR POLLUTION REGULATIONS

Regulation	Status	Date of publication	Major fields of application	Limitations involved
domestic and other civil uses	in force	9 Jan 1968	domestic heating and hot water, cooking, hygiene, incinerators, bakeries, laundries. and similar uses.	viscosity and sulphur content of oil fuels.
industries	drafted for comment	mid-70?	all polluting industries.	ground level concentration of wide range of pollutants.
heavy vehicles	drafted for comment	late-70?	diesel engines	smoke emissions.
cars	preliminary	1971?	otto engines	CO/HC emissions.

APPENDIX C

COMMISSIONE CENTRALE CONTRO L'INQUINAMENTO ATMOSFERICO (I.001)

Central Commission for Air Pollution

Constitution as laid down in Law 615:-

director general, president or head of:
    Public Hygiene and Hospitals Service, Min. Health
    Fire and Civil Security Service, Min. Interior
    Urban Areas and Hygiene, Min. Public Works
    Energy Sources, Min. Industry
    Industrial Production, Min. Industry
    Civil Traffic, Min. Transport
    2nd Section, Council of Public Works
    Occupational Hygiene Inspectorate
    Chemical Laboratory, Istituto Sup. di Sanità
    Health Engineering Lab. Istituto Sup. di Sanità
representatives from:
    Consiglio Superiore di Sanità
    Min. Scientific Research
    Min. for State Participation
    Meteorological expert
    Nat. Assn. for Control of Combustion
    Stazione Sperimentale per i Combustibili
    Associazione Termotecnica Italiana
Secretary from Min. Health

Responsibilities

- to look into all matters connected with AP,
- to advise on all AP questions put forward by public or private organisations,
- to promote studies and research into AP problems.

Status

Established.

APPENDIX D

REGIONAL COMMISSIONS FOR AIR POLLUTION

COMMISSIONI REGIONALI CONTRO L'INQUINAMENTO ATMOSFERICO (1002)

Constitution   as laid down in Law 615:-

president - President of Region (or of administration of chief town)
vic. pres.- Health assessor of Region (or of administration of chief town)
Provincial health dept. of chief town
Health office of region
Regional coordinator of public works
Civil traffic dept.
Provincial Inst. of Hygiene (2)
Meteorological expert
Regional Fire Dept. (2)
Local section of Safety Inspectorate
Regional Occupational Hygiene Inspectorate
Representative of province or region
Representative Nat. Municipal Assn.
Chamber of Trade for chief town (2)
Secretary from Min. Health.

Responsibility

- to look into all regional matters connected with AP.
- to advise on provisions for adoption by Communal Authorities, in accordance with the Law.
- to promote studies, research and initiative against AP.

Status

Being established. Already established:-

Milan:	Via Juvara 22. 20100 MILANO (tel: 717751)	president: Dr. E. Peracchi
Turin:	Via Maria Vittoria 12. 10100 TORINO (tel: 5756)	president: Dr. G. Oberto secretary: Dr. R. Denco
Genoa:	Piazzale G. Mazzini 2. 16100 GENOVA (tel: 5499)	president: Dr. Pastorino

APPENDIX E

DRAFT REGULATION FOR INDUSTRIAL EMISSIONS
STRUCTURE AND MAJOR FEATURES

S.I Art. 1-2	General	Fields of application - definitions.
S.II Art. 3-4	Abatement plant	Design and operation.
S.III Art. 5	Industrial plant	Requirements for installation or modification - documents.
S.IV Art. 6-7	Operation	Surveillance and inspection.
S.V Art. 8-9	Emissions	Limits* and supervision.
S.VI Art. 10-11	Dispositions	Interim and final.

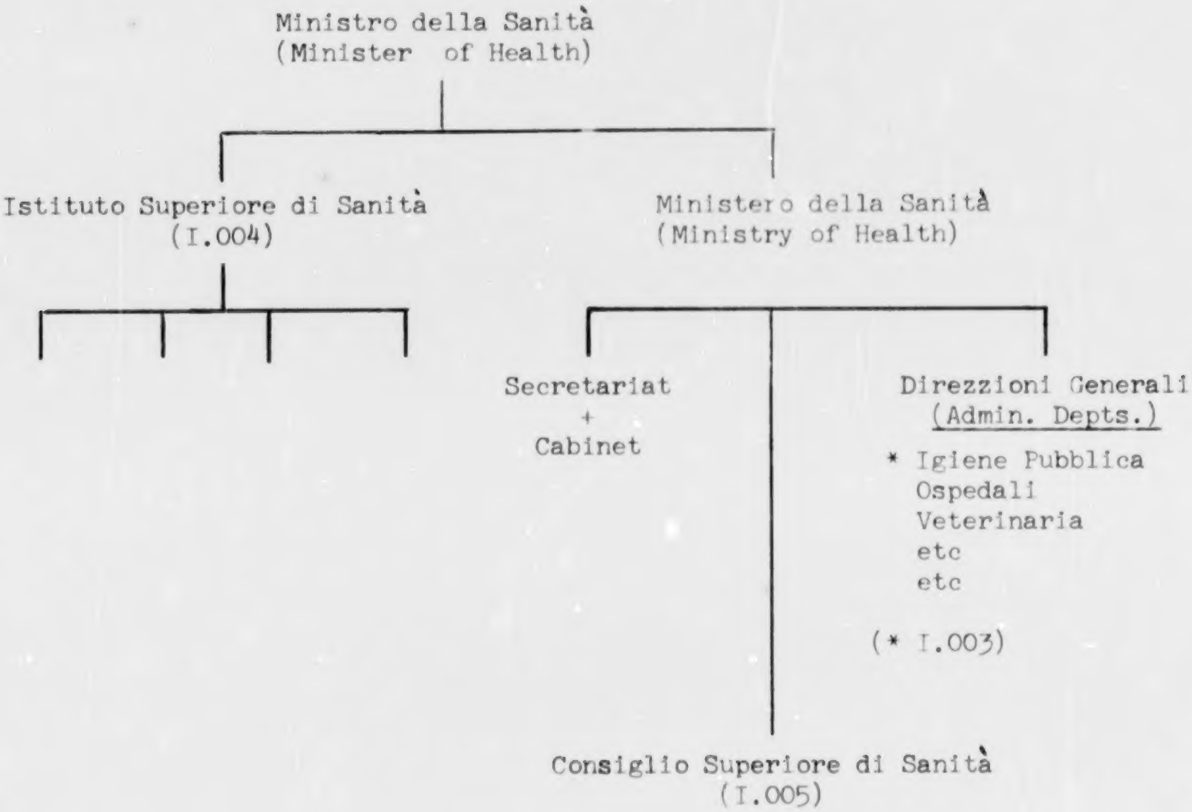
* The control of emissions is based on limits for the ground level concentration of various pollutants. The following values have been proposed:-

Pollutants	Peak values[a]		Average values[b]	
	ppm	mg/m^3	ppm	mg/m^3
sulphur dioxide	0.30	-	0.07	-
hydrogen sulphide	0.07	-	0.03	-
hydrocarbons	100	-	50	-
carbon monoxide	90	-	30	-
hydrochloric acid	0.20	-	0.03	-
chlorine	0.20	-	0.03	-
nitrogen oxides[c]	0.30	-	0.10	-
fluorides[d]	-	0.06	-	0.02
lead compounds[e]	-	0.05	-	0.01
particulates (20% SiO_2)	-	0.50	-	0.10
" (other)	-	1.00	-	0.30

(a) 30-min sample; once in 8h.
(b) 24h average (except 8h for CO and Pb)
(c) as NO_2
(d) as F
(e) as Pb

APPENDIX F

ORGANISATION OF HYGIENE GROUPS


Ministro della Sanità
(Minister of Health)
Istituto Superiore di Sanità
(I.004)
Ministero della Sanità
(Ministry of Health)
Secretariat
+
Cabinet
Direzzioni Generali
(Admin. Depts.)
* Igiene Pubblica
Ospedali
Veterinaria
etc
etc
(* I.003)
Consiglio Superiore di Sanità
(I.005)

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JAPAN

Physical and Demographic Features of Japan*

Japan consists of four main islands - Hokkaido, Honshu, Shikoku and Kyushu - and other small islands. It extends about 1250 miles from the north end of Hokkaido to the south end of Kyushu; and its greatest width is less than 200 miles. Its area is 144,000 square miles, three-quarters of which is mountainous: 13.6% of the land is arable; 3.7% meadow, 61%, forest. The remaining 21.7% comprises both built-up areas and wilderness areas.

Annual rainfall varies from about 40 inches in Hokkaido to about 100 inches in Kyushu. In the central Honshu area, in which the greatest concentration of population and industry exist, the annual rainfall is about 60 inches. In all areas of Japan, about 36% of the precipitation occurs in winter and spring; 64% in summer and autumn.

The minimum temperature in the northern cities is around 13°F. The maximum temperature is about 98°F for all Japan, and the average temperature varies from 45°F in the north to 59°F in the south, with the previously noted central Honshu area having an average of about 57°F.

The population of Japan is approximately 100 million and has been increasing at about 1% per annum. The overall population density is 694 per square mile. On the basis of cultivated and urbanized land only, the population density is 4159 per square mile, the highest in the world. The population is presently about 70% urban and 30% rural, with a trend toward increasing the urban percentage.

About 60% of the population lives in cities of 50,000 or more; about 30% live in 30 cities of over 300,000 population. Of these 30 cities, 26 are on the seacoast. Five of these seacoast cities are on the west coast of Kyushu. They are Fukuoka, Kagoshima, Kitakyushu, Kumamoto, and Nagasaki. One, Matsuyama, is on the west coast of Shikoku, and one, Niigata, is on the west coast of Honshu. Only four of the largest 30 cities are not on the seacoast, viz. Gifu, Kanazawa, Kyoto and Sapporo, the remaining 17 are on the east coast of Honshu. Of these one, Sendai, is on the northern part.

The remaining 16, over half of the 30 largest cities, are all on the east coast of central Honshu. These 16 cities are, in order of population: Tokyo, Osaka, Nagoya, Yokohama, Kobe, Kawasaki, Amagasaki, Sakai, Hamamatsu, Himeji, Shizuoka, Nishinomiya, Chiba, Wakayama, Yokosuka and Toyonaka. Among them, they comprise almost 25% of the population of Japan, with about equal numbers assignable to the north-central complex centered in Tokyo and the south-central complex centered in Osaka. In general, the major population centers are also the major industrial centers.

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*Adapted from "General Features of Japan Related to Environmental Pollution Problems," Environmental Sanitation Bureau, Ministry of Health.

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Political Features, Related to Air Pollution Control

Japan is a constitutional monarchy, having an Emperor, and a Prime Minister who represents the majority party in the Diet, which is the bi-cameral legislature. There are a number of Federal Ministries, each headed by a Minister: the Ministers make up the Cabinet. The capital city is Tokyo.

Basic to its air pollution control activity is the Federal system of Planning Councils. The most pertinent ones are the National Economic Deliberation Council and the National Living Standards Improvement Council, which are administerered by the Economic Planning Bureau of the Prime Minister's Office; JA-004
and the National Energy Investigation Council, National Petroleum Deliberation Council, National Industrial Structure Deliberation Council, and National Industrial Land Regulation Deliberation Council, administered by the Ministry of International Trade and Industry. JA-008

The country is divided into the Tokyo Metropolitan Government, Hokkaido, and 44 prefectures, within which are cities, towns and villages. Tokyo and six other cities of over 1,000,000 population (Kitakyushu, Kobe, Kyoto, Nagoya, Osaka and Yokohama) have been specially designated by Federal law to have greater municipal powers than the remainder of Japanese cities not so designated. Thus, in Osaka Prefecture, Osaka City operates many services that in other prefectures are operated at the prefectural level.

Prefectures each have an elected Governor, an elected Assembly, and a prefectural capital city in which are located the principal offices of the prefectural administrative agencies; one of these is usually a prefectural Department of Public Health. Cities have an elected Mayor and Municipal Assembly, and generally have a municipal Department of Public Heath.

The Federal government, from time to time, has created special purpose regions, such as Industrial Development Regions and New Industrial City Regions. Regional groups of prefectures recognized for certain developments include the Chubu Region, comprising Aichi, Fukui, Gifu, Ishikawa, Nagano, Niigata, Shizuoaka, Toyama and Yamanashi Prefectures, and the Kinki Region, comprising Hyogo, Kyoto, Mie, Nara, Osaka, Shiga and Wakayama Prefectures.

Air Pollution Features of Japan

Air pollution is currently recognized to be a severe prefecture-wide problem in Tokyo, Osaka, Kanagawa and Hyogo Prefectures; to be a severe local problem in the cities of Yokkaichi, Omuta and Kitakyushu; and to be on the verge of becoming a severe problem in the city of Nagoya, and the area around Ichihara in Chiba Prefecture.

The prefectural governments of Tokyo, Okayama, Mie, Kanagawa,
Hyogo and Chiba have submitted to the Natonal Council on Environmental
Pollution Control of the Prime Minister's Office, area air pollution JA-001
control plans for their entire prefectures, or for the cities or areas
noted above, and have received Council approval of these plans in
conformity with the Council's Basic Policy issuances.

The Tokyo Metropolitan Area, essentially all of Osaka Prefecture
and 48 other cities, towns and regions have been designated as
"restricted areas" under the terms of Article 3-1 of the Federal Air
Pollution Control Law of 1968. This means that because of present or APPX-A
potential future air pollution emissions, they must conform to Federal
requirements.

The Japanese consider their air pollution problem as mainly associated with the sulfur content of oil, the carbon monoxide content of automobile exhaust, and the particulate matter and odor from a wide variety of industrial and fuel burning sources. Japan relies on oil for most of its heat and power. During the past decade, heavy and chemical industry has increased by a factor of six; light industry by a factor of three; passenger car and truck registration by a factor of fifteen.

History of Federal Air Pollution Control

1960 - Federal funds were made available to Nihon Koshu Eisei
Kyokai for study of the air pollution problem (Table VII). JA-175

1962 - The Science and Technology Bureau of the Prime
Minister's Office first provided funds to the several Ministries JA-003
for air pollution research. Smoke was recognized as a national
problem by the enactment of the Smoke, etc. Control Law, jointly
administered by the Ministry of Health and Welfare (MHW) and the JA-017
Ministry of International Trade and Industry (MITI).

1963 - A Commission was organized jointly by the Ministry of Health and Welfare and the Ministry of International Trade and Industry under the chairmanship of Dr. M. Kurokawa to investigate the air pollution problems of the Yokkaichi area. The recommendations of this Commission in 1964 were an important milestone for air pollution control in Japan.

1964 - MHW initiated investigation of the effect of air pollution on health in the Osaka area; continuous monitoring started for CO, NO_x, SO_x and other pollutants at three stations in Tokyo. Another commission jointly organized by MHW and MITI and also headed by Dr. M. Kurokawa initiated a study of the air pollution potential of the proposed new Mishima-Numaza industrial area. As a result of strong objections raised by the public during this study, development of the new area was cancelled.

The Interministerial (Vice-Minister's) Council on Environmental
Pollution was organized, now known as the National Council on Environ- JA-001
mental Pollution Control.

1965 - Special Committees on Environmental Pollution Control of the Upper and Lower Houses of the Diet were created.

The Environmental Pollution Council of MHW was established. JA-018

MHW started a Federal Air Sampling Network, planned eventually to include 20 stations; presently (1969) including 11 stations. APPX-B

The Public Nuisance Protection Corporation was authorized by law. It is jointly administered by MHW and MITI, and can use both appropriated funds and the Federal Pension Contingency Fund to make loans to and contracts with both public agencies and private companies for pollution control facilities; the construction of pollution control facilities for joint use by several private enterprises, the development of industrial parks for relocation of pollution producing industries; the planning of industrial complexes which will minimize pollution production; and the acquisition and afforestation of land to create buffer zones between industrial and residential areas. The Federal government provides funds for all the administrative costs of the corporation.

1966 - MITI was authorized to create within its Agency for Industrial Science and Technology, a Special Desulfurization Program, to finance the development of pilot and prototype process plants for flue gas and fuel oil desulfurization. JA-009

The Special Committee of the Diet on Environmental Pollution Control issued a special decision to require the Ministry of Transport (MT) to set an emission standard for carbon monoxide for 1967 model automobiles. A 3% CO limit, using a Japanese standard 4 mode cycle was adopted, and its application was extended later to 1968 and 1969 model cars. It is expected to be decreased to 2.5% for 1970 cars. JA-024

MHW initiated studies of the effect of air pollution on health in Chiba prefecture.

MHW, MITI, and MT initiated joint comprehensive pre-siting surveys for new industrial development projects. These involve a baseline survey of pollution and meteorology; the computation of pollution levels through use of a mathematical model; the use of models in wind tunnels and tracers in the field; and the verification of model studies by an air quality monitoring network.

1967 - The Basic Federal Law (No. 132) for Environmental Pollution Control was enacted. This enables adoption of Federal air quality standards; designation of specific areas in which environmental pollution control planning can be required; paymentof damages resulting from implementation of the law; appointment of a National Council on Environmental Pollution Control; and a National Advisory Council on Environmental Pollution Control. JA-001 JA-002

An Air Pollution Training Program was started by the Institute of Public Health. JA-021

1968 - The present Federal Air Pollution Control Law (No. 97) was enacted, rescinding the 1962 Smoke, etc. Control Law. This specifically authorizes designation of areas where Federal air pollution prevention requirements must be met; adoption of emission limitation procedures; automobile exhaust control; and an improved alert procedure. Authority is given to MHW and MT for the automobile exhaust provisions of the law (previously to MT); and to MHW and MITI for its other provisions.

Cabinet Order No. 329, November 30, 1968 listed as Specified Noxious Substances 24 chemicals designated as injurious to human health. APPX-C The gaseous exhaust from motor vehicles is also designated as injurious to human health, as carbon monoxide. Specific air quality standards are set for sulfur dioxide and emission factors for SO_2, which are more stringent for the more highly industrialized urban areas.

Regulatory functions delegated to cities, instead of the Prefectural Governor, in Metropolitan Tokyo, and also in Yokohama, Sakai, Osaka, Omuta, Niigata, Nagoya, Kyoto, Kurashiki, Kobe, Kitakyushu, Kawasaki, Himeji and Amagasaki.

The same cabinet order lists 13 categories of boilers, furnaces and incinerators as "smoke emission facilities subject to regulation". Emission limits are set for these which vary with the APPX-C type of service.

1969 - The Cabinet on February 12, on the advice of the National Council on Environmental Pollution Control, promulgated stringent air quality standard for sulfur oxides based on recommendations of the Environmental Pollution Control Committee of the Council for Living Environmental of MHW This is the present standard:

1. (a) One-hour sampling periods in which the value is less than 0.2 ppm of SO_2 should account for over 99 per cent of the total hours of the year.

   (b) The days in which the daily average is less than 0.05 ppm should account for over 70 per cent of the total days of the year.

   (c) The hours in which the value stands at less than 0.1 ppm should account for over 88 per cent of the total hours of the year.

2. The annual average value should be less than 0.05 ppm per hour.

3. The following three degrees of pollution (days on which emergency measures are required) should not exceed 3 per cent of the total days of the year, nor should they last over three consecutive days.

   (a) The content of SO_2 remains at over 0.2 ppm for 3 consecutive hours.

   (b) The content remains at over 0.3 ppm for 2 consecutive hours.

   (c) The content remains at over 0.5 ppm for 1 hour.

   (d) The content averaged over 48 hours remains at over 0.15 ppm.

Under a further Ministerial order of July 29, 1969, the value of K in the emission standard for sulfur dioxide was changed to the much more stringent value of 5.26 for new installations in selected areas of Tokyo, Yokohama, Kawasaki, Osaka Amagasaki and Yokkaichi (see formula shown in Table III and Region A).

In 1969 an air quality standard for CO was promulgated. According to current (1969) newspapers, the Ministry of Health and Welfare is now working on establishment of Kogai Eisei Kenkyu Sho (National Research Institute of Public Nuisance Control and Hygiene), with functions in the coordination of research, studies on health effects, surveillance and methods of measurement, and planning and developments in the technology of pollution control. However, this will not include research activities which are now being carried out by other Ministries, such as desulfurization technology development, exhaust gas control technology development, etc.

Local Air Pollution Control

JA-042-145

In general, air pollution control is at the prefectural and municipal level in Japan, although, as previously noted, in some cases local authorities must abide by Federal regulations.

The first major air pollution control legislation in Japan was the enactment in 1949 of public nuisance control regulation by the Tokyo Metropolitan Government. In 1957 the Kanagawa Prefecture Air Pollution Control Committee was established and started air quality monitoring in the Yokohama-Kawasaki area. These antedated the Federal control program.

The first major air pollution monitoring system in the Osaka area was set up in 1962 jointly by Osaka Prefecture, Osaka City and Sakai City. In 1963, Osaka City enacted an air pollution regulatory law. As of 1969, 26 prefectures, 25 cities and 19 towns or villages had air pollution control ordinances; and in 96 cities, 16 towns and 1 village there were air pollution control organizatons of either the prefecture or the municipality.

At the prefectural or municipal level, air pollution control is generally the responsibility of the Prefectural or Municipal Public Health Department, with regulatory activities in its Public Nuisances Bureau, and monitoring and research activities in the Public Nuisances Section of its Prefectural or Municipal Institute of Public Health. "Public Nuisance" is the generic term used to describe air, water, and soil pollution, odors, noise and vibration.

The Prefectural or Municipal Institute of Public Health is the laboratory for a Public Health Department and may be variously called a Research Institute, a Hygienic Institute, a Hygienic Sciences Institute or a Hygienic Laboratory. In smaller prefectures or municipalities, the Institute may serve as the Public Health Department, and vice versa.

In those prefectures or municipalities where environmental pollution has become a major problem, other organization patterns have emerged, ranging from creation of an Environmental Pollution Control Administration, independent of the Public Health Department, which combines regulatory, monitoring and research functions, to the creation of a Public Nuisances Research Institute, either within or independent of the Public Health Department, to which only the monitoring and research functions are assigned. One feature of these Public Nuisance Institutes, by whatever name they may be known, is usually a central display and control center for a telemetered air quality monitoring network. Such centers are now operational in 12 areas and scheduled in 9 more.

APPX-D

Most larger prefectures and cities have Comprehensive Planning Bureaus, some of which have identifiable air pollution specialists. In general, there is delegation of Federal and Prefectural authority to some of the larger municipalities. This results in some overlap in monitoring and planning between the prefecture and its larger cities.

Since Federal law requires prefectures and municipalties to organize a health center for every 100,000 population, some of these centers are used to house prefectural or municipal air pollution control, monitoring or research personnel. The clientele of these health centers form a basic population for epidemiological studies.

Air Quality Monitoring

There are two air quality monitoring systems in Japan. The first is a Federal National Air Sampling Network which measures SO_2, NO, NO_2, CO, O_3, H_2S, Hydrocarbons, suspended particulate matter, humidity, temperature and wind direction and velocity. There are also a number of prefectural and municipal air sampling networks which usually are

APPX-B

APPX-D

limited to SO_2, Particulate matter (dust fall), and wind
direction and velocity. The instruments most commonly used are
listed in Appendix E. APPX-E

Air Pollution Research and Developments

Research is conducted in a group of governmental labora-
tories, primarily those of the Agency for Industrial Science and JA-009-016
Technology (MITI); the National Institutes of Public Health and JA-021-022
Hygienic Sciences (MHW); the Ship and Meteorological Research Institutes JA-025-028
(MT); the Experiment Stations and Research Institutes of the Ministry
of Agriculture and Forestry; the National Institute of Industrial JA-032-037
Health of the Ministry of Labor; and the Building Research Institute JA-038
of the Ministry of Construction. In addition, research is done JA-039
in Prefectural Institutes of Public Health, Public Health Depart- JA-042-097
ments, and more particularly in Prefectural Public Nuisance Research JA-098-103
Institutes and Control Centers. There is also a group of Prefectural
Agricultural and Industrial Research Institutes involved in air JA-104-113
pollution research.

At the municipal level, there are City Institutes of Public
Health and of Hygienic Sciences and City Public Health Departments, JA-114-138
as well as specialized municipal Public Nuisance Control Agencies
and Centers. JA-139-141

Among the quasi-public agencies, particular attention should JA-146-157
be called to the Japan Environmental Sanitation Center. Finally, JA-148
there are private research laboratories, perhaps the most important
of which is the Central Research Institute of the Electric Power JA-230-233
Industry, and a large number of universitites. The extent of the JA-245-318
research and development effort over the period 1960-1971 is shown
in Appendix F. APPX-F

Air Pollution Association

There is a professional air pollution association, Japan
Society of Air Pollution; and an industrial air pollution association, JA-159
Japanese Air Pollution Control Association. There is a group JA-158
of associations concerned with pollution of all types, and several JA-161-164
concerned with occupational and urban health and hygiene. There JA-165-177
are medical, agricultural, and engineering societies. Finally,
there is a variegated group of professional societies and trade
associations in the areas of air pollution interest. JA-203-229

Bibliographic Resources

In addition to several organizations primarily concerned JA-319-324
with scientific documentation, there are large numbers of proprietary
publishers of periodicals and books related to air pollution. JA-325-372
Also, almost all the professional societies and trade associations
publish technical periodicals. JA-158-229

APPENDIX A

Designated Restricted Areas

Aichi Prefecture------Nagoya City; Chita Town; Ueno Town; Yokusuka Town

Chiba Prefecture------Chiba City; Ichihara City; Funabashi City; Ishikawa City; Narashino City; Urayasu Town

Fukuoka Prefecture----Kitakyushu City; Omuta City

Hiroshima Prefecture--Otake City; Iwakuni City

Hokkaido District-----Muroran City

Hyogo Prefecture------Kobe City; Amagasaki City; Nishinomiya City; Himeji City; Akashi City; Ashiya City; Atami City; Kakogawa City; Takasago City; Hirama Town

Ibaragi Prefecture----Hitachi City

Iwate Prefecture------Kamaishi City

Kanagawa Prefecture---Yokohama City; Kawasaki City

Mie Prefecture--------Yokkaichi City

Niigata Prefecture----Niigata City

Okayama Prefecture----Kurashiki City

Osuka Prefecture------Osaka City; Most of the prefecture

Saitama Prefecture----Kawaguchi City; Hatagaya City

Tokyo Prefecture------Tokyo Metropolitan Region

Toyama Prefecture-----Toyama City; Takaoka City; Shimmineto City

Yamaguchi Prefecture--Ube City; Onoda City; Tokuyama City; Iwakuni City; Nanyo Town; Waki Village

APPENDIX B

National Air Sampling Network*, Organized 1965

Year	National Air Sampling Network
1965	Tokyo, Osaka, Amagasaki
1966	Kawasaki, Kitakyushu
1967	Yamaguchi pref., Sapporo
1968	Kurashiki, Nagoya
1969	Chiba pref., Shimane pref.
1970 (proposed)	Sendai, Omuta, Niigata, Tokyo, Chiba pref., Fukuoka, Akita pref., Kyoto, Suwa, Tokushima

*Measures SO_2, NO, NO_2, CO, O_3, H_2S, hydrocarbons, suspended particulates, humidity, temperature, wind direction and velocity.

APPENDIX C

Cabinet Order No. 329, Nov. 30, 1968

Specified Noxious Substances

1. Ammonia
2. Hydrogen fluoride
3. Hydrogen cyanide
4. Formaldehyde
5. Methanol
6. Hydrogen sulfide
7. Phosphoretted hydrogen
8. Hydrogen chloride
9. Nitrogen dioxide
10. Acrolein
11. Sulfur dioxide
12. Chlorine
13. Carbon bisulfide
14. Benzene
15. Sulfur acid (including SO_3)
16. Silicon fluoride
17. Phosgene
18. Selenium dioxide
19. Chlorosulfonic acid
20. Yellow phosphorus
21. Phosphorus trichloride
22. Bromine
23. Nickel carbonyl
24. Phosphorus pentachloride

Air Quality Standards for SO_2

The emission limit for sulphur oxides is given separately as:

$$q = K \times 10^{-3} He^2$$

where:

q = quantity of SO_2 in cu. m/hr at STP
He = effective stack height in meters
K = constant as follows:

Region	Includes	K (1968)	K Revised (7/29/69)
A	Tokyo, Yokohama, Kawasaki, Osaka, Yokkaichi, Kobe and Mizushima	20.4	5.26-11.7 (New)
B	Chiba, Nagoya, and Kitakyushu	26.3	12.8-14.0
C	Other specified industrial areas	29.2	15.8-26.3

APPENDIX C (continued)

"Smoke Emission Facilities Subject to Regulation"
Cabinet Order No. 329

1. A boiler [excluding those exclusively using electricity or waste heat as thermal source or those exclusively using gas containing less than 0.5% in volumetric ratio of sulfuric compound (hereinafter referred to as dilute sulfuric gas)]	The heat conducting area calculated by the method as provided for in the relevant Ordinances of the Ministry of Health and Welfare and the Ministry of International Trade and Industry is larger than 10 square meters.
2. A gas producer or a heating furnace used for generation of water gas or oil gas (excluding those exclusively using benzine containing less than 0.5 per cent in volumetric ratio of dilute sulfuric gas or sulfuric compound)	Consuming capacity per day of coal or cokes used as material exceeds 20 tons or burning capacity per hour of the liquid fuel burner exceeds 50 liters of fuel, or burning capacity per hour of the gas burner exceeds 80 cubic meters of gas.
3. A roasting furnace or sintering furnace (including furnace for pellets) or calcining furnace for metal smelting or for manufacturing of inorganic chemical products.	Material treating capacity per hour exceeds 1 ton.
4. A blast furance (including reverberatory furnace for smelting) or open hearth furnace or converter in use for smelting metals.	
5. A smelting furnace (excluding small cupola exclusively using electricity as thermal source or exclusively using dilute sulfuric gas fuel) in use for refining or casting of metals.	The fire grate area (referred to the horizontal projected area of a fire grate, the same hereinafter) is larger than 1 square meter or the Cross-sectional area of the tuyere (referred to the horizontal area of its part encircled by the inner wall of the furnace at a height where its lowest bottom is positioned) is larger than 0.5 square meter, or burning capacity per hour of the powdered coal burner exceeds 80 kilograms of fuel or burning capacity per hour of the liquid fuel burner exceeds 50 litres of fuel or burning capacity per hour of the gas burner exceeds 80 cubic meters of fuel.
6. A heating furnace (excluding those exclusively using electricity as thermal source or exclusively using dilute sulfuric gas as fuel) in use for forging or rolling of metals or for heat treatment of metal or metal products.	
7. A heating furnace (excluding those exclusively using dilute sulfuric gas as fuel) in use for manufacturing petroleum or petrochemical products or coal-tar products.	

8.	A catalyst regeneration tower of the fluid catcracker used for petroleum refining.	Combustible capacity per hour of carbon sticking to the catalyst exceeds 200 kilograms.
9.	A kiln or fusing furnace (excluding those exclusively using electricity as thermal source or those exclusively using dilute sulfuric gas as fuel) in use for manufacturing pottery products.	The area of the fire grate is larger than 1 square meter, or burning capacity per hour of the powdered coal burner exceeds 80 kilograms of fuel, or burning capacity per hour of the liquid fuel burner exceeds 50 liters of fuel or burning capacity per hour of the gas burner exceeds 80 cubic meters of fuel.
10.	A reaction furnace (including combustion equipment for manufacturing carbon black) in use for manufacturing inorganic chemical products or food stuffs or direct-fire furnace (excluding those exclusively using dilute sulfuric gas as fuel).	
11.	A drying furnace (excluding those exclusively using electricity as thermal source and those exclusively using dilute sulfuric gas as fuel).	
12.	An electric furnace (limited to oxygen blowing type in case of steel manufacturing) in use for manufacturing pigiron, steel, ferroalloys or carbide.	The rate capacity of the transformer is greater than 1,000 kilo-volt ampere
13.	A refuse incinerator	The area of the fire grate is larger than 2 square meters.

The emission limits for soot and other fine dust for these facilities, except during start-up or cleaning fires for not exceeding 6 minutes in any hour, are:

Grams/cu.m STP	
0.1	Roasting, sintering and calcining furnaces
0.2	Cupolas
0.5	Blast furnaces
0.6	Open-hearth furnaces (not oxygen lanced); Wet or Lepol cement kilns

APPENDIX C (continued)

Grams/cu.m STP	
0.7	Heating furnace for generation of water or oil gas, Smelting furnaces and converters, Metallurgical and petrochemical heating furnaces, continuous calcining kilns (other than for lime or cement), Tank-type fusing furnaces, Refuse incinerators
0.9	Electric-arc steel furnaces and carbide furnaces rated at over 12.000 Kv-amps
1.0	Boiler furnaces (water-wall), Gas generator, oxygen-lanced open-hearth furnaces, metal melting furnaces, Catalytic Regeneration towers, cement kilns (other than Wet or Lepol)
1.2	Boiler furnaces (other than water-wall), Crucible furnaces Direct fired reaction furnaces, Drying furnaces, Carbide furnaces rated at under 15,000 Kv-amps
1.5	Lime kilns
2.0	Other calcining kilns not previously listed.

APPENDIX D

Major Prefectural and Municipal Air Quality Monitoring Program

	SO_2			Particulates		Data Processing	
	Elec. Cond.	Standard	PbO_2	Dust Fall	Susp. Part.	No. of Telemetering-Stations	Computer Control
Aichi Pref.	6	-	-		-	Scheduled-6	-
Nagoya City	-	3	15	15	-	Scheduled-6	-
Chita Town	-	1	3	16	-	Scheduled	-
Chiba Pref.	18	7	46	10	6	Operational-9	Operational
Fukuoka Pref.	7	-	-	-	-	-	-
Kitakyushu City	-	3	30	30	-	Scheduled-7	-
Omuta City	-	3	15	15	-	-	-
Muroran City	3	3	15	13	1	-	-
Hyogo Pref.	14	6	40	39	3	Operational 7	-
Kobe City	-	3	29	4	5	Operational-4	-
Amagasaki City	-	2	17	3	1	Operational-3	-
Himeji City	-	3	12	8	1	Operational-4	-
Kamaishi City	3	3	14	20	2	-	-
Kanagawa Pref.	9	-	-	-	-	-	-
Yokohama City	-	5	38	26	2	Operational-6	-
Kawasaki City	-	3	9	10	3	Operational-4	-
Yokkaichi City	5	5	17	16	-	Operational-5	-
Niigata City	2	2	30	6	-	-	-
Osaka Pref.	26	5	8	8	5	Operational-3	Operational
Osaka City	-	6	33	17	3	Operational-5	-
Sakai City	-	5	27	17	6	Operational-3	-
Kawaguchi City	2	2	3	3	2	-	-
Tokyo Met. Region	11	11	43	16	11	Operational-15	-
Toyama Pref. incl. Takaoka City	3	3	3	10	3	-	-
Ube City incl. Unoda City	6	6	65	65	2	-	-
Kyoto Pref.	-	-	-	-	-	Scheduled-4	-
Kyoto City	-	-	-	-	-	Scheduled-5	-
Kurashiki City	-	-	-	-	-	Scheduled-10	-
Shizuoka Pref.	-	-	-	-	-	Scheduled-6	-
Yamaguchi Pref.	-	-	-	-	-	Scheduled-8	-
TOTAL	115	90	512	367	56	Operational-12 areas Scheduled-9 areas	2

APPENDIX E

Commonly Used Air Quality Monitoring Instruments

Instrument	Manufacturer	Address of Manufacturer
NO, NO_2	Denki Kagaku Keiki K. K.	Kitamachi 4-chome, 13-14, Kichijoji, Musashino, Tokyo
SO_2-automatic	Denki Kagaku Keiki K. K.	Kitamachi 4-chome, 13-14, Kichijoji, Musashino, Tokyo
SO_2-automatic	Kimoto Denshi Kogyo K. K.	2-1 Funabashi-cho, Tennoji-ku, Osaka
O_3-automatic		
Hydrocarbon	Kimoto Denshi Kogyo K. K.	2-1 Funabashi-cho, Tennoji-ku, Osaka
Hydrocarbon	Yanagimoto Seisa Kasko K. K.	Shimotoba Joshungamae 28, Fushimi-ku, Kyoto
Particulate	Shibata Chemical Apparatus Manufacturing Co.	3-1-25 Ikenohata, Taito-ku, Tokyo
CO-infrared	Hitachi Horiba Mfg. Co.	Kyoto
Wind	Koshin Electric Co.	

APPENDIX F

BUDGET ALLOCATIONS FOR AIR POLLUTION CONTROL

Budget for	Subject	1960-1	1962	1963	1964	1965	1966	1967	1968	1969	1970
Prime Minister's Office, Science & Technology Bureau											
Environmental Science and Technology Development Promotion	Air Pollution	--	<— 142.6 —>				46.7	36.1	23.0	--	--
	Odor	--	<— -- —>				--	--	14.7	--	--
	SUB-TOTAL	--	<— 142.6 —>				46.7	36.1	37.7	--	--
Japanese Society of Public Health	Air Pollution Control	<— 25.6 —>			--	--	--	--	--	--	--
MHW: M.Labor; M.Trans.; Agcy. Sci. & Tech.	Air Pollution Control	--	85.3	85.3	--	--	--	--	--	--	--
Agency of Science & Technology	Air Pollution Photography	--	--	4.7	--	--	--	--	--	--	--
Agency of Science & Technology	Air Pollution Diffusion	--	--	--	12.4	--	--	--	--	--	--
Min. Transp.; Agcy. Sci. & Tech.	Smog	--	--	--	22.1	22.1	--	--	--	--	--
MHW: M.Labor; M.Trans.; M.Agri.	Air Pollution Control	--	--	--	--	<— 63.0 —>			--	--	--
Min. Transp.; Agcy. Sci. & Tech.	Exhaust Gas Measurement	--	--	--	--	--	17.5	--	--	--	--
Min. Transp.; Agcy. Sci. & Tech.	Air Pollution Diffusion	--	--	--	--	--	--	20.3	20.3	--	--
	SUB-TOTAL	<— 251.1 —>								--	--
Ministry of International Trade & Industry											
Agency of Science & Tech.	Flue Gas Desulfurization	--	--	--	--	--	325.0	455.0	547.0	4.0	--
Ministry	Residual Fuel Oil Desulfurization	--	--	--	--	--	--	100.0	240.0	428.0	285.0
	Facilities & Equipment	--	--	--	--	--	68.1	124.4	156.7	--	--
	Air Pollution - General	--	--	--	--	--	68.7	179.6	161.0	--	--
	SUB-TOTAL	--	--	--	--	--	471.8	859.0	1004.7	473.0	285.0
Small Enterprises	Construction of Controls	--	--	--	--	113.9	129.2	130.9	--	--	--
	SUB-TOTAL	--	--	--	--	<— 374.0 —>			--	--	--
Ministry of Health & Welfare											
Ministry	Special Studies	--	--	--	--	--	--	--	64.0	--	--
	Air Pollution - General	--	--	--	--	--	--	--	16.9	--	--
	Odor	--	--	--	--	--	--	--	2.4	--	--
	SUB-TOTAL	--	--	--	2.4	25.7	29.9	100.0	83.3	--	--
Ministry of Transport											
Direct Appropriation	Air Pollution Control	--	--	--	--	--	8.9	19.6	11.6	--	--
Subsidy (Sci. & Tech. Bureau)	Air Pollution Control	--	--	--	--	--	2.3	6.7	6.3	--	--
	SUB-TOTAL	--	--	--	--	--	11.2	26.3	17.9	--	--

APPENDIX F (continued)

Budget for	Subject	1960-1	1962	1963	1964	1965	1966	1967	1968	1969	1970
Japan Development Bank											
Industry	Pollution Control	--	--	--	--	1465.0	1032.0	620.0	--	--	--
Small Enterprise Financing Corp.											
Small Factories	Pollution Control	--	--	--	--	101.0	176.5	210.0	173.0	--	--
Small Enterprise Promotion Corp.											
Small Factories	Pollution Control	--	--	--	--	--	--	--	206.0	--	--
	SUB-TOTAL	--	--	--	--	1566.0	1208.5	830.0	379.0	--	--
Ministry of Construction											
Project Bureau	City Planning Surveys	--	--	--	--	--	--	--	1.8	--	--
City Bureau	Green Belts	--	--	--	--	--	--	--	250.0	--	--
	Ichihara City	--	--	--	--	--	<——	3200.0	——>	--	--
	Yokkaichi City	--	--	--	--	--	<——	1626.0	——>	--	--
	Akaho City	--	--	--	--	--	--	<——	494.0	——	——>
	Tokuyama City	--	--	--	--	--	--	--	<——	570.0	——>
	Purchase of Factory Land	--	--	--	--	--	--	--	4000.0	--	--
Ichihara & Yokkaichi Cities	Enforcement of City Planning	--	--	--	--	--	--	--	90.0	--	--
City Bureau	City Planning Surveys	--	--	--	--	--	--	--	0.5	--	--
Residence Bureau	Apartment House Construction	--	--	--	--	--	--	--	68.1	--	--
	Residential Relocation	--	--	--	--	--	--	--	11.0	--	--
Public Nusisance Protection Corp.											
Activities	Land, Construction, Financing	--	--	--	--	--	2158.0	4610.0	6860.0	6854.0	--
Rubber Factories - Kobe	Building Construction	--	--	--	--	475.6	433.0	439.5	--	--	--
Financing	Smoke & Dust Control	--	--	--	--	285.0	205.0	505.1	707.1	--	--
	Smoke & Water Control	--	--	--	--	131.0	221.0	175.0	697.0	--	--
	Special Pollutant Control	--	--	--	--	--	23.6	127.0	--	--	--
	Special Pollutant & Water Control	--	--	--	--	118.0	67.0	25.0	--	--	--
Ichihara City	Air Pollution Control Facilities	--	--	--	--	550.1	557.9	1206.0	1486.0	--	--
Yokkaichi City	Air Pollution Control Facilities	--	--	--	--	--	724.5	540.0	466.0	--	--
Osaka City	Air Pollution Control Facilities	--	--	--	--	--	160.0	--	--	--	--
Akaho City	Air Pollution Control Facilities	--	--	--	--	--	--	534.0	100.0	--	--
Tokuyama City	Air Pollution Control Facilities	--	--	---	--	--	--	--	640.0	--	--

NETHERLANDS

GENERAL AIR POLLUTION BACKGROUND

Geography

Although a small country, the Netherlands is densely populated. Besides the large towns of Amsterdam, Rotterdam and The Hague, there are very many smaller urban areas. The area of the Rhine estuary is the main centre of industrial growth, and this is now extending southwards to the Scheldt. It includes refineries and chemical plant as well as the extensive Europoort facilities. Between Europoort and The Hague is an extensive area of glasshouses, with a high winter fuel consumption. The coal industry in the SE of the Netherlands is now declining; massive resources of natural gas have revolutionised the energy (and pollution) situation in the country.

Political Features

Interest in and concern about air pollution is growing in the Netherlands. All political parties have air pollution abatement and control as an issue in their programmes. Both in the Amsterdam and Rotterdam areas there are citizens' groups for combatting air pollution; the Amsterdam pressure group succeeded in achieving the refusal of a licence for a projected carbon disulphide plant. The expected introduction of a new Law may well increase such pressures, as could the 1970 European Conservation Year.

In the Netherlands, air pollution control is generally a cooperative exercise between the legislature and industry. The economic viability of an enterprise is respected by the authorities on the understanding that realistic efforts will be made to achieve a reduction in pollutant emissions. Prosecution is usually unnecessary.

Present Controls

National, Local

The Hinderwet (Nuisance Law, 1875, with subsequent revisions) is the only existing legislation affecting air pollution; its essential requirements are summarised in Appendix I. It requires that certain specified industrial installations, liable to cause hazards or nuisance to their surroundings, must be approved by the local authorities.
Each new industrial plant receives a list of specific requirements which it must meet. These conditions may forbid certain practices, stipulate design features such as minimum stack heights, and require the provision of waste gas cleaning equipment. In addition, they may restrict certain

processes to specific areas in the locality. If the measures prescribed in the licence prove inadequate, the municipal authority may stipulate additional measures - with the sole limitation that they must not endanger the economic viability of the enterprise.

(iii) administration

The responsibility for licensing and inspecting installations covered by the Hinderwet rests with the 1000 or so individual municipal authorities, where the department concerned is the Office of Buildings and Housing Control, reporting ultimately to the Municipal Council. Each authority formulates the conditions required in a new licence but it can seek advice from other authorities, either directly or through the Association of Netherlands Municipalities, or from other organisations. NL.022

There are no national or local ambient air quality standards. However each local authority has its own, unpublished, figure used in calculating the permitted emission (in kg/h) of relevant pollutants. In this connection, the Rotterdam authorities have adopted the UK Chimney Heights Memorandum to control the design of domestic and small industrial stacks.

(iv) finance

Each organisation bears its own costs.

Trends

Current interests

Attention is largely directed against industrial SO_2 and smoke. The very extensive greenhouse area in Westland (south of the Hague) attracts attention for its very large wintertime heat and SO_2 emissions. There is some concern about oxidant episodes in the Zuid Holland province; these are identified with interactions of specific industrial emissions. Other industrial emissions being studied include fluorides from aluminium smelting, and the effects of ethylene on vegetation. Emissions from vehicles are in general felt to present less of a threat, but Rotterdam's Commission is taking an interest in CO in the Maas tunnels and other localities where traffic jams are not uncommon. There is some talk about the significance of lead compounds emitted by motor vehicles. NL.010

Proposed controls

A new law (known as the Air Pollution Law, but without formal title yet) is now in preparation by the Secretary of State to the Minister van Sociale Zaken en Volksgezondheid (Min. SoZaVo - Minister for Social Affairs and Public Health) with the active support of the advisory Raad van de Luchtverontreiniging (Air Pollution Council). This Law, which has been very widely discussed, will establish principles and procedures; for the moment, the type of licensing regulations established under the Hinderwet will continue (with procedural modifications) but it is foreseen that specific regulations based on the new Law can be introduced to control emissions from equipment or fuels or actions (eg rubbish burning). NL.001

One of the principal novelties in the draft Law is the proposed
increase in the role of the eleven Provinces. In future, operating
licences will be granted by the Provincial authorities after taking
the advice of the appropriate municipal authority. The advice of
the Inspectors of the Hoofdinspectie van het Milieu (Environmental NL.002
Health Inspectorate) is at the disposition of the Provincial
authorities for public health matters, as is that of the Directie
voor de Arbeid (Labour Inspectorate) for matters concerning the NL.021
safety and health of workers. The Ministry SoZaVo can also give
directives to the Provinces if need be.

It is intended that pollution will, as a rule, be monitored
through the contemplated national monitoring network under the
aegis of the RIV. An industrial fund, maintained by levies from NL.006
industry, home heating, and traffic in equal proportions, is
proposed in the draft Law to pay for this monitoring and to
recompense individuals suffering air pollution damage where the
source is not identified. There will be no subsidies for abatement
measures undertaken by industries; each must carry its own expenses
(e.g. for taller stacks). It is estimated this fund will reach
DG5-10m annually. The basis of payment has not been defined,
except that those who need industrial licences will pay (though not
twice, i.e. not both on the fuel used and on the installation itself).

Time table

The Bill for the new Air Pollution Law has been laid before Parliament but is not expected to be debated before early 1970. It has already been much delayed, and political pressures may yet cause extensive modifications and further delay. A possible modification may place greater responsibility on central government at the expense of the Provinces; a central institute for air pollution has been mentioned in this context.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

The key organisation is the Raad inzake de Luchtverontreiniging NL.001
(Air Pollution Council). It is a body of some 35 members representative
of most aspects of Dutch life - central and local government, national
laboratories, trade unions, and industry (see list of present members
in Appendix II).

Set up by the Ministry of Social Affairs and Public Health (Min. SoZaVo) some five years ago to advise on the content of the proposed new Law on air pollution, it has grown in status and will not only become the highest non-government organisation on air pollution but will be the advisory body for the Minister SoZaVo as regards the application of the new Law.

The Council meets regularly. Essentially a discussion group, it
undertakes no practical work but can sponsor this at other institutions.
In its future role under the new Law, it can be foreseen that reports
from the Hoofdinspectie van het Milieu (Environmental Health Inspectorate). NL.002

will be coupled with technical advice from RIV and TNO and data from NL.006 NL.003
the proposed national monitoring system, to lead to action by the
Provinces through the industrial licensing arrangements.

The Rijksinstituut voor de Volksgezondheid (RIV - State Lab- NL.006
oratory for Public Health) at Bilthoven near Utrecht is the central
official laboratory for the Netherlands as far as air pollution
measurements are concerned. It undertakes much of its work at the
request of the Environmental Health Inspectorate, but may also NL.002
accept investigations on behalf of other bodies.

Under the aggressive leadership of its director Dr. J. Spaander,
the RIV is set to become the country's air quality measurement centre
also. Current plans to establish a national continuous-monitoring
network in 1970, already initiated locally by the Rijnmond Authority NL.008
(qv), will involve telemetering data to Bilthoven from monitoring
stations in the nine industrial regions of the Netherlands, for
centralised computer serveillance and warning. The Philips organisation NL.007
is providing most of the equipment for this proposed scheme, which it
is estimated will cost DG 10m to set up. Only sulphur dioxide will be
monitored to begin with, but the plans extend to NO_x, Oxidant and
eventually CO and HC as equipment becomes available from Philips or
other sources.

It is likely that the opinions of the RIV, by virtue of its expertise and judgment gained in operating the national survey as well as in making other more local measurements, will carry considerable weight with the Nationale Gezondheidsraad (National Health Council) (which it is responsible for advising when air quality or emissions standards are being established.

Next in national importance (but, so far at least, of higher
international status) is TN[illegible]roperly, TNO-IG - Instituut voor NL.003
Gezondheidstechniek - Institute for Public Health Engineering). Set up
undertake research into all problems of health and environment, this
national but strongly independent organisation has two of its six
research divisions concerned with air pollution: (a) the Atmospheric
Pollution Division (under Ir. L.J. Brasser) responsible for research
into methods of analysis, measurements of outdoor pollution levels
(either autonomously or at the request of local authorities or
industries), and correlations between emissions, pollution levels and
public health; (b) the Indoor Air Division (under Ir. P.N. Meijer)
concerned with occupational hygiene inside industrial premises, and
giving advice on abatement methods. (Both Divisions are assisted by
P.E. Joosting, non-divisional specialist on medical matters).

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* Widely known by these initials alone. They stand for Toegepast Natuurwetenschappelijk Onderzoek (Applied Scientific Research), an independent organisation set up by the Government in 1932 to stimulate such research into many aspects of Dutch social and industrial activity. It is financed by commissioned work from industry and from government departments.

The Atmospheric Pollution Division of TNO has a total staff of 20, of whom five are graduates. It can call on the services of the analytical chemistry group, effectively adding two more staff to the effort. The confidential and independent nature of TNO investigations is much appreciated by the industries commissioning its work. The more official and public nature of the similar activities of RIV work in TNO's favour in this respect. It issues each year several reports on technical and social aspects of its work. Report G300 of 1966 was widely influential in establishing air quality criteria and the related use of the cumulative frequency concept.

Another Institute of TNO, the Centraal Technisch Instituut (Central NL.004
Technical Institute), is responsible for the more industrial aspects of the TNO work in air conservation. Research under Mr. B. de Goede covers methods of analysis of pollutants (chromatography), and it also studies and gives advice on the treatment of effluent gases in chemical engineering, including research on the pilot plant scale into methods of abatement. This is the principal centre of such research in the Netherlands.

In the Central Laboratory of TNO, a new work group will be set up to study such topics as atmospheric chemistry.

Another TNO institute which is becoming active in this field is the Rijks Verdedigings Instituut (RVI - National Defence Research Institute) but its work is mostly secret.

The Koninklijk Nederlands Meteorologisch Instituut (KNMI - Royal NL.005
Dutch Meteorological Institute) plays an important part in the meteorological aspects of research in air pollution in the Netherlands. Dr. F.H. Schmidt, the director, has given assistance in the development of the Rijmond Authority's monitoring system and the eventual development of the national survey. His early work on the dispersion of plumes (rivalling that of Pasquill in the UK Meteorological Office) has now been taken over by Dr. C.A. Velds.

Although they undertake no research or measurements, the inspectors in the Air Pollution Department of the Hoofdinspectie van NL.002
het Milieu (Environmental Health Inspectorate) have extensive experience in the enforcement of clean air regulations. They are, in effect, local environmental watchdogs. With the introduction of the new Law their powers can be expected to grow; ultimately it is planned that each province shall have its own Inspector, who will work closely with headquarters and with the RIV.

Research and advice on the effects of air pollution on agriculture is handled by the Instituut voor Plantenziektenkundig Onderzoek (IPO - Institute for Phyto-pathological Research) at Wageningen, under the direction of Dr. J. G. ten Houten and in cooperation with Min. SoZaVo. As a part of the University of Agriculture at Wageningen, it also has connections with the Min. of

Agriculture. The IPO has offices in many parts of the Netherlands and is therefore a large and widespread organisation. Its air pollution work, which forms only a part of IPO's activities, is supported by TNO-IG (without strings so long as it is air pollution work). It involves such instances as investigating alleged crop damage for court cases.

Four Provinces already have air pollution committees to guide and coordinate the activities of all the Municipalities in their areas:

(a) Noord Holland coordinates the work of Amsterdam (which has its own AP committee and - exceptionally - its own laboratories), Zaamstreek, Haarlem (including IJmuiden), etc.

(b) Zuid Holland includes the Municipalities of Rotterdam, The Hague, Delft, Doordrecht and the Westland fruitgrowing area. This Province has its own monitoring network operated by TNO-IG, and also the nascent Rhine Estuary Authority (based around Vlaardingen, near Rotterdam) (see below).

(c) Zeeland comprises the fast-developing areas of Vlissingen and the region south of the Scheldt, where measurements are currently made by IPO and TNO independently.

(d) Limburg, the mining area in the extreme SE of the Netherlands, is able to use monitoring data taken by the Dutch State Mines.

Despite their present responsibilities for applying the Hinderwet
regulations, few Municipalities are directly active in air pollution.
Exceptional are Amsterdam and Rotterdam, whose Commissions for air NI.010
quality, etc. (Commissie: Bodem, Water, Lucht) are the bodies concerned. NL.011
These undertake studies on sources of pollution and their abatement,
with measurements of ambient levels of smoke and SO_2. These Municipal
Commissions are made up of representatives (18 - 20) from the
Municipal Health Department, the Building and Housing Inspectorate,
the Municipal Power Station, the Waterway Authority and, at Rotterdam
the Bureau of Food Control. This last is equipped with laboratories
which are commissioned to undertake investigations of pollution in
the Rotterdam area.

The Rhine Estuary Authority (Openbaar Lichaam Rijnmond) is a relatively new public body, with a Committee for Environmental Hygiene. The Authority involves 23 local authorities, including Rotterdam itself, in the area of the highly industrialised waterway between Rotterdam and Europoort. NL.008

The Committee is now establishing, under the direction of Dr. L.A. Clarenburg, a fully automatic centralised SO_2 monitoring network to cover its area. Through a computer, 31 monitoring stations will develop norms of pollution against which current levels will be automatically compared. When an upward trend for the time of day and wind direction is detected, and when information from the KNMI indicates continuation of the prevailing meteorological conditions for at least 6 hours, a warning will be automatically transmitted by closed circuit radio to appropriate industrial and municipal premises. NL.005

The Authority is not empowered to go beyond these warnings at this time. It cannot demand remedial action; this will still lie between the individual Municipal authorities and the industries concerned. It is authorised, however, to register public complaints of pollution nuisance and to transfer these to the appropriate Hinderwet authority.

The Philips organisation is intimately involved with this development (see below); the RIV and KNMI also support it. NL.007

This Rijnmond Authority monitoring scheme can be regarded as an exploratory stage of the proposed Dutch National Survey.

The Philips industrial organisation (NV Philips' Gloeilampenfabrieken) is a large and aggressive business, which manufactures a very wide variety of equipment. Its Industrial Automation Group at Eindhoven is developing a range of fully-automated air pollution monitors. NL.007

Following some initial encouragement from the Government in 1966, Philips agreed with the RIV and the Rijnmond Authority to set up a trial automatic SO_2 monitoring system with centralised computer operation - Phillips to provide all the hardware. If this scheme, to start in October 1969, is successful, the Government has let it be understood that Philips would be able to assist in setting up the national survey to be operated by the RIV from Bilthoven. NL.008 NL.006

The Philips SO_2 monitor has already received several months' unattended field testing; 31 will be used in the Rijnmond Scheme. An NO_2 automatic monitor is under development; oxidant and CO monitors are proposed.

Many other individual companies, industrial groups and associations are also active in air pollution in the Netherlands. In most instances their interests are self-protective. They are described in the card index.

APPENDIX A

ESSENTIALS OF THE HINDERWET (PUBLIC NUISANCE ACT) 1952

Art. 2. It is illegal to establish or to operate without a licence an installation which may cause danger, damage or nuisance outside the installation itself.
These installations are enumerated by a general administrative order.

Art. 3. The local municipalities grant the licences.

Art. 13. A licence will be refused only when it is certain or is to be feared that, due to the installation outside of the installation itself, either danger, damage to properties, undertakings or health, or serious nuisance will be experienced which can not satisfactorily be removed by making provisions.

Art. 16. The licence may be granted for a certain period.

Art. 17. The licence may be granted on certain other conditions.

Art. 21. It is also possible for a licence to be granted by provincial authorities when provincial interests are involved.

Art. 26. At any time the conditions of a licence can be changed or the licence can be discontinued.

Art. 28. Installations working without a licence and enumerated in the general administrative order as mentioned in Art. 2 can be closed down.
Installations can also be closed when the licensee does not meet the conditions of the licence.

Art. 29. Appeals may be made to the Crown against any decision. Petitions have to be filed with the local authorities who granted the licence.

Art. 31. Violation of these rules is punishable by a fine of DG.3000 or imprisonment of 3 months.

The possession of a licence does not protect the licensee against claims of third parties. If, nevertheless, air pollution causes damage to third parties, the damaged party may institute a civil action to claim compensation.

NL-9
July 69

APPENDIX B

COUNCIL ON AIR POLLUTION

DE RAAD INZAKE DE LUCHTVERONTREINIGING

Secretariat: Dokter Reijersstraat 10
Telephone 070-694211 Telex 2570
Leidschendam

Ir. S.H. Visser, Chairman. Stadhuis Den Helder	Burgomaster of Den Helder.
Mevr.Mgr.Chr.A. de Ruijter-de Zeeuw, Deputy Chairman. Koningskade 1-2 's-Gravenhage	Deputy member of the Provincial Government of Zuid Holland.
Mr. W. de Bruijn, Secretary Dokter Reijersstraat 10 Leidschendam	-
Mr. J.A. Alleman, Asst.Secr. idem	-
Dr. J.J. Barkman Kampsweg 29 Wijster	Biological Laboratories of the Netherland Union Against Water, Soil and Air Pollution.
Mr. F.J.J. Besier Dokter Reijersstraat 10 Leidschendam	Director of Environmental & Food Hygiene, Ministry of Social Affairs & Public Health.(Min.SoZaVo)
Ir. J.A. Beukers Postbus 7150 Rotterdam	Chairman of Exec.Cttee. of the Europoort-Botlek Industries Organisation. (NL.017)
Mr. C.M.C. Brouerius van Nidek Balen van Andelplein 2 Voorburg	Dir.Gen. for Labour, Hinderwet Dept. (Min. SoZaVo)
Ir. H. Corver Maliebaan 21 Utrecht	Inspector of General Affairs & Planning of the Technical Culture Service (Min.Agric. & Fisheries.)
Ir.J.F. Cusell Van Alkemadelaan 85 's-Gravenhage	Director for the Building Industry (Min. Housing etc.)
J.E. Duintjer Julianalaan 9 Veendam	Air Pollution Working Gp. of the Industrial Water Commission.
Ir. H. Eilers Dokter Reijersstraat 8 Leidschendam	Inspector in the State Supervision of Public Health (Min.SoZaVo)
Ir. A.J. Elshout Rochussenstraat 200 Rotterdam	Rotterdam Municipal Electricity Board.

APPENDIX B (continued)

Mr. H.B. Engelsman Stationsplein 2 Schiedam	Rijnmond Authority (NL.008)
Dr. N.J.A. Groen Dokter Reijersstraat 8 Leidschendam	Environmental Hygiene Inspector in Chief (Min. SoZaVo)
Ir. J. Hellemans Prinses Marielaan 1 Amersfoort	Director of the Assn. of Users of Boilers and Prime Movers.
Chr. van Hofwegen Piet Hein 24 Sliedrecht	Recreational Group of 's-Gravenhage; Burgomaster of Sliedrecht
Dr. W.H. Kemmers Javastraat 80 's-Gravenhage	Dir.Gen. of the Central Office of Horticultural Cooperatives.
Ir. J.G. Kuiperbak Fruitweg 262 's-Gravenhage	Chief Inspector of the State Service for Road Traffic (Min.Roads &Waterways)
Ir. A.H.W. Martens Apollolaan 9 Heerlen	Insp.Gen. of the State Supervision of Mines.
Mej.Mr. J. van Ommen Steenvoordelaan 370 Rijswijk Z.H.	Policy-forming Dept. for Open Air Recreation (Min.Culture, Recreation & Social Security)
Ir. M.W. den Outer Rochussenstraat 200 Rotterdam	Director of Rotterdam Municipal Electricity Board.
Ir. W.C. Reij Balen van Andelplein 2 Voorburg	Dir.Gen. for Labour (Min. SoZaVo)
Mr. L.G. van Reijen Paleisstraat 5 's-Gravenhage	Director of Assn. of Netherlands Municipalities (NL.022)
Dr. A.J Schilstra Paviljoenlaan 9 Haarlem	Director of Provincial Council for Public Health.
Prof. Dr. F.H Schmidt Utrechtseweg 297 De Bilt	Director of the Special Division for Scientific Research of the KNMI (Nl.005)
Ir. F.N. Sikkes Achter de St. Pieter 20 Utrecht	Deputy Member of Utrecht Municipal Council.

APPENDIX B (continued)

Ir. W. van Soest le van den Boschstraat 4 's-Gravenhage	Director of the Horticultural Trade Directorate (Min.Agric. & Fisheries).
Prof. Dr. J.W. Tesch Koningin Marialaan 21 's-Gravenhage	Chairman of TNO Health Organisation. (Nl.003)
Mr. A Uyt den Bogaard Postbus 7150 Rotterdam	Secretary of the Exec.Cttee. of the Europoort-Botlek Industries Organisation. (NL.017)
L Verweij Prinses Beatrixlaan 5 's-Gravenhage	Secretary of the Environmental Hygiene Office of the Federation of Netherlands Employers. (NL.019)
Ir. W. Visser te IJmuiden	Head of Chemical Technological Dept. of the Royal Dutch Blast Furnaces & Steel Works. (NL.014)
Dr. Ir. G.S van der Vlies Shell Nederland Raffinaderij Pernis	Head of Technology Dept. (NL.015)
Mr. L.G Wansink Bezuidenhoutseweg 30 's-Gravenhage	Dir.Gen. for Energy Supplies (Min. Econ. Affairs).
Ir. H. Wiggerts Lange Voorhout 19 's-Gravenhage	Head of State Planning Service.
Mr. N.M. Zijp Raamweg 25-28 's-Gravenhage	Agricultural Commission.

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NORWAY

GENERAL AIR POLLUTION BACKGROUND

Geography

Norway is a long, thin, mountainous country with a small population (~4m) settled in a relatively few towns separated by long stretches of sparsely populated and rugged forest land. The principal towns are Oslo, Bergen, Trondheim, Stavanger and Kristiansand.

Industrial activity is, like the majority of the population, concentrated around the Oslo Fjord: wood pulp and paper around Sarpsborg and Drammen, cement manufacture near Oslo and Skien, metallurgical plant at Skien and Kristiansand, chemical fertiliser at Porsgrunn, and oil refining at Slagen. On the long deeply-indented west coast, there are a few large towns, some with industrial plant: an extensive iron works at Mo and oil refining at Stavanger. There is also an extensive fish oil industry with a characteristic odour problem.

Much of the power generated in Norway is hydro-electric; coal mined in Spitzbergen supplies the iron works at Mo; but oil provides the majority of fuel used for industry and for space heating, both commercial and domestic.

Political features

Air pollution activities in Norway are relatively recent. The Røykskaderådet (Smoke Control Council) was set up in 1961 to define air pollution limitations in the operating licences of new industrial plant. Professor Lindberg initiated a number of air quality measurements in the Oslo area in 1956 but public concern was not aroused until his reports, published in 1967-8, indicated a correlation between sulphur dioxide concentrations and excess mortality, a correlation widely interpreted as causal. N.001 N.009

In 1967 the Ministry of Industry set up an Air Conservation Committee (Luftforensningsutvalget) to review the situation and to recommend appropriate administrative and control measures. Concurrently, the Norges Teknisk Naturvitenskapelige Forskningsråd (NTNF - Norwegian Technical and Natural Science Research Council) proposed the formation of a new national institute for air pollution (NILU - Norsk Institutt for Luftforskning) and this came into being in 1969. N.005 N.008 N.004

The topic of air pollution is now the subject of frequent newspaper comment. The effects of the Swedish initiative in environmental conservation are apparent. Many official and industrial bodies are now establishing appropriate groups specifically to handle air pollution questions. An attitude of cooperation between authorities and industry is general, and in this small population, experts are mutually well acquainted.

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Present Controls

The Vegtrafikloven (Road Traffic Act) of 18 June 1965 makes provisions for the prevention of smoke emissions from vehicles of all types. The limits are not very stringent (max 70 Hartridge : 5.5 Bosch) and surveillance is not strict.

The Sundhetsloven (Health Law) of 16 May 1860 provides a general but unspecific basis for air pollution controls. It allows for action against emissions proved to be a danger to public health, but is therefore more effective after the event than in prevention. This law is administered by the local health council (Helseråd) in each of the 450 Communes (municipal area, ie town and surrounding country) throughout Norway. The Helseråd, whose head is usually the district medical officer, is responsible for communal health and is expected to become increasingly responsible for local air pollution matters. The local Helseråder take guidance from the central Helsedirektoratet (the Health Directorate) N.002 in Oslo but they have much autonomy in the detailed local application of the law. It is to be noted that the Oslo municipal Helseråd is N.007 unique in having an officer (Mr.R.Os) specially nominated for air pollution.

Under the Bygningsloven (Building Law) of 18 June 1965, the Bygnings Myndigheter (Building Authorities) of the local councils are required to consider health aspects of air pollution when preparing building and zoning proposals for large or small areas. They are also required to take any special pollution problems into consideration when granting buildings licences for new industrial plant.

The Granneloven (Neighbour Law) of 16 June 1961 contains the principal present provisions in Norway for the control of air pollution in terms of the protection of private health and property. Moreover, under this law each new industrial enterprise is required to have an operating licence from the Smoke Control Council (Røykskaderådet) N.001 defining stack heights, maximum emissions, and so on - but the law is not retroactive and it does not apply to works existing before the law was enacted. The principal provisions and modus operandi of the Granneloven as it affects air pollution are described in Appendix I.

Thus, local authorities control pollution incidents under the Sundhetsloven as regards public health or under the Granneloven as regards private health or property. Potential pollution from new installations is regulated through operating licences obtained from the local Bygnings Myndigheter, the local Helseråd and the central Røykskaderådet. Exchange of views and the recognised expertise of the last of these bodies avoids conflict of requirements imposed.

Operating requirements are defined by the experience of the officials concerned, especially in the Røykskaderådet. Each case is assessed on its merits; there are no national criteria or standards. Requirements are defined in terms of the type of equipment, not ground level concentrations. Licences can be updated as new technology and control feasibility develops but within a framework of what is reasonable and economically possible in that branch of industry. A pragmatic and rather informal approach to controls is characteristic in Norway.

Trends

The whole field of air pollution is now being revised by the Luftforensningsutvalget (the Air Conservation Committee), a seven-man committee set up by the Ministry of Industry in 1967. It is required not only to make proposals for the reshaping of the control structure but also to recommend such regulations or changes in the law as may seem appropriate. N.005

The first report of this Committee was presented in April 1969. It proposes a framework-type law which would give local authorities powers to restrict the use or otherwise control emissions from fuel oil. This law could well be enacted during 1970. Details of the proposals are given in Appendix II.

The Committee is expected to complete its work before the end of 1971.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

The Røykskaderådet (Smoke Control Council) is the principal and central administrative group for industrial air pollution control in Norway at present. N.001

Its functions are explained in Appendix I.

The six members are recommended by the Min. of Industry and appointed by the King for terms of 4 years. Both the chairman and the vice-chairman of the Council have to be lawyers. In addition, the following interests are represented:

- The Storting (Parliament)
- The Manufacturing Industry
- Medical Interests
- Agricultural Interests
- Meteorological Interests.

The Chief Secretary of the Council is also a lawyer.

The present composition of the Council is given in Appendix III.

The Smoke Control Council is authorised to decide most of the applications for industrial operating licences insofar as air pollution is concerned. The Neighbour Act also provides that the Council, in addition to questions of permits, can be given other tasks relating to the prevention of air pollution; for example, it worked out and gave effect to a special operational control system for Norwegian aluminium plants.

The Helsedirektorat (Health Directorate) of the Ministry of N.002
Municipal Affairs and Labour is responsible for national policy on the
health aspects of air pollution - inter alia - and is responsible
for advising the local Helseråder. It has just agreed to establish
an advisory board of 15 - 20 medical men to coordinate information on
pollution risks to health, to instigate relevant medical research, and
to propose appropriate legislation. A new Department of Toxicology
to be set up later at Oslo University will provide the secretariat for
this advisory board.

The Luftforensningsutvalg (Air Conservation Committee) has been N.005
mentioned in Section II.4 above, and in Appendix II. Its role is
advisory and interim.

The newly established Norsk Institutt for Luftforskning (NILU - N.004
Norwegian Institute for A P Research) is expected to play an important
part in air pollution matters in the future. It is controlled by
a board of five (see Appendix IV); the NTNF (Norges Teknisk N.008
Naturvitenskapelige Forskningsrådet - Norwegian Technical and Natural
Science Research Council) provides the regular budget, but this will
be supplemented by commissioned work for industrial and other groups.
A staff of about 25 by mid-1970 is foreseen, under the energetic
direction of Dr Ottar. An outline of its proposed programme is also
given in Appendix IV.

In the field of abatement technology the Gassrensegruppe (Gas } N.006
Purifying Group) of SINTEF (Selskapet for Industriell og Teknisk
Forskning - Society for Industrial and Technical Research) is
predominant. This group of about 7 engineers, located at the Norges
Tekniske Høgskole, Trondheim, studies industrial pollution abatement
methods, makes flue gas analyses, and provides an advisory service to
Norwegian industry and government. It is supported by a grant from
NTNF and income from commissioned work. Close cooperation with NILU
is likely.

Dr W. Lindberg, assistant professor at the Hygienisk Institutt, N.009
Oslo Universitet, has undertaken air quality measurements in correlation
with morbidity in various Norwegian towns and industrial areas since
1956. His findings, published in 1968, provide the basis for much of
the current opinions about air pollution in Norway. He is the
Norwegian representative on the council of Nordforsk, is technical X.002
adviser to the Røykskaderådet, and is also a member of the OECD N.001
Working Party on air pollution measuring methods. However it is not X.005
clear whether he will be able to continue working on air pollution matters.

Occupational hygiene aspects of air pollution are the province
of the Yrkeshygienisk Institutt (Institute of Occupational Hygiene) N.012
and of the Statens Arbeidstilsyn (State Labour Inspectorate), which N.010
operates under the direction of the Sosialdepartementet (Ministry of
Municipal Affairs and Labour) - to which the national Helsedirektoratet
and local Helseråder are also affiliated.

A number of professional and industrial groups have committees
active in air pollution. Den Norske Ingeniørforenings Tekniske Komite N.013
for bekjempelse av luftforurensninger (The Technical Committee for the
Prevention of Air Pollution of the Norwegian Society of Engineers)
was established in 1964 as a consultative technical agency and to promote
cooperation among Norwegian industries institutions and individuals.
Technical opinions are exchanged with the Røykskaderådet. N.001

Den Norsk Dampkjelforening (Norwegian Steam Boiler Owners Association) N.014
has a small group to study and develop advice on boiler and burner operation
to minimise pollutant emissions. The head of this group, Siv. Ing.
Steineger, attends the meetings of Nordforsk. X.002

The oil companies in Norway have also set up a pollution committee
- Oljeselskapers Utvalg for behandling av forurensnings problemer - to N.015
develop recommendations for appropriate action.

The major chemical fertiliser company "Norsk Hydro" is also very N.020
active in air pollution in and around its own area at Porsgrunn.

APPENDIX A

THE GRANNELOVEN (NEIGHBOUR LAW)

The main provision regarding air pollution is found in paragraph 19 of the Act, which requires industrial companies and other undertakings to obtain a permit if they emit gas, smoke, radiation, etc., causing harm or inconvenience to many persons or over a wide area. The obligation to obtain a permit also applies if an existing undertaking changes its operation so as to cause greater harm or inconvenience than was previously the case.

The Act provides that the granting of a permit be subject to such conditions as are considered necessary to protect those who may be affected by the damage or inconvenience.

The Act also provides for the appointment of the Røykskaderådet (Smoke Control Council) to assist in preparing and considering cases for permits. The Council may be authorised to decide on the individual applications for permits and can also be given other tasks in connection with measures against air pollution. N.001

The Act provides for the King to issue additional rules concerning applications for permits and their consideration, etc. Such rules have been established by Order in Council on 22 December 1961. The same Order also authorised the Smoke Control Council to decide on individual applications for permits.

The obligation to obtain an operating permit is imposed on industrial manufacturing companies and other undertakings which may emit pollution over a wide area. The Rules established by Order in Council on 22 December 1961 provide that the following types of industrial undertakings must always apply for a permit:

(a) Undertakings burning coal, coke or oil in industrial plant for purposes other than heating of premises, food-making or heating of water for personal washing, ordinary cleaning, or other household requirements. Steamboiler plants with a capacity of less than 2 tons of steam per hour are exempted.

(b) Gas and coke works.

(c) Iron works, foundries and other metallurgical undertakings.

(d) Cement factories, lime-kilns, glass manufacturing establishments and other mineral processing plants causing dust.

(e) Chemical and electro-chemical factories.

(f) Pulp and paper factories.

(g) Herring oil factories, guano factories and other factories for the processing or destruction of organic offal.

(h) Oil and fat refineries.

The Smoke Control Council studies the applications received, decides whether the undertaking requires a permit or not, and makes any further inquiries that may be necessary. A summary of the application is thereafter published in the daily press and in the Norwegian Official Gazette, together with the announcement of a final date, normally six weeks hence, to allow anybody suffering inconvenience of damage to present objections against the granting of a permit. Simultaneously with the publication in the press, the announcement is also sent to the Commune (municipality) in question with a request for its opinion within the said six weeks' period.

When the six weeks' period has expired, the Council examines the matter for a final decision. To the extent that the Council considers it necessary in order to have the case considered, it may engage Norwegian or foreign experts in the various fields.

If the Council finds that the case is of such doubt or of such importance that the decision should be made by the King, it presents a recommendation to the Ministry of Industry. In other cases the Council makes its own independent decision in the case. The decision of the Council is reported to the applicant and also to the Commune in question and to those who objected to the permit being granted. The decisions of the Council may be brought on appeal to the Ministry of Industry.

The permit is usually granted subject to certain conditions, normally comprising the following elements:

(a) Limitation of the extent of production.

(b) Further specifications for purification installations.

(c) Indication of the height above ground for gas efflux.

(d) Provisions to the effect that the purification installations shall be maintained in a satisfactory condition.

(e) Provisions to the effect that the company in other respects too shall do all that is technically and economically possible to limit inconvenience and damage caused by smoke, gas and dust from the operation.

(f) Provisions to the effect that the company itself shall make sure that any inconvenience and damage is kept to a minimum.

(g) Provisions to the effect that the Smoke Control Council or its controllers shall at any time have access to the plant for the purpose of carrying out control measurements and confirming that the stipulated conditions are being observed.

If the conditions laid down in the permit prove to be more severe than is necessary or to have unexpected effects, the conditions may be relaxed or revoked.

If the damage or inconvenience caused by the undertaking proves much worse than expected, the Smoke Control Council may lay down additional conditions for the purpose of preventing or counteracting the damage or inconvenience.

APPENDIX B

DRAFT BILL REGARDING RESTRICTIONS ON THE USE OF FUEL OIL
Translation from Norwegian

§1 The majority proposal.

For areas where it is considered necessary in order to restrict air pollution, the King can issue rules prohibiting the use of oil for heating purposes or restricting the sulphur content and viscosity of the oil to stipulated limits.

The prohibition can be limited to apply to certain parts of the year or in periods following such notification as decided by the King.

The minority proposal to §1 1st paragraph.

For areas where it is considered necessary in order to restrict air pollution, the King can issue rules prohibiting the combustion of oil having a sulphur content or a viscosity which exceeds certain specified limits.

§2 Except as otherwise provided in any prohibition rule issued pursuant to §1, the King can grant full or partial exemption from such rule for parts of the area concerned, certain plants or groups of plants provided such exemption is not inadvisable on account of the plant design, chimney height, purification facilities, location, etc.

The King can also grant such exemption for certain plants or groups of plants which would otherwise be adversely and unreasonably affected on account of competitive or other special circumstances, or in cases where an exemption is desirable for important social reasons.

An exemption can be subject to such conditions as the King considers necessary.

APPENDIX B (continued)

§3 The majority proposal.

As a condition for handling an application for exemption pursuant to §2, the King can order the applicant to pay all or part of the costs of the measurements or investigations which are considered necessary for the purpose of deciding the application.

The minority proposal.

As a condition for handling an application for exemption pursuant to §2, the King can order the applicant to produce results of measurements of the discharges of sulphur compounds and soot from the applicant's plant.

§4 Any person who uses or sells oil for heating purposes is obliged to make available to the competent authority such information and oil samples, and grant access for such investigations as the King may decide.

Any person who sells such oil is obliged to give the buyer undemanded a written statement of the sulphur content and viscosity of the oil.

§5 The King will issue further rules for the implementation of the provisions of this Act and for ensuring compliance with said rules and provisions.

§6 Violation of the provisions of this Act or rules issued pursuant thereto will be punished with fines or imprisonment for up to 3 months.

APPENDIX C

(RØYKSKADERÅDET) SMOKE CONTROL COUNCIL

N.001

Membership at September 1969

Chairman:	S. Stray,	MP and advocate.
Vice Chairman:	K. Halden,	advocate.
	P.B. Holmesland,	Industriforbundet and Norske Hydro
	Y. Gotås,	Meteorological Institute (FFI).
	R. Vollan,	veterinary director in Min. of Agriculture.
	H. Tjønn,	medical officer for Lower Telemark.
Secretary:	T. Holmøy,	lawyer.
Tech. adviser:	W. Lindberg,	Inst. of Hygiene, Oslo University.

SWEDEN

GENERAL AIR POLLUTION BACKGROUND

Geography

Sweden, the largest and most populated of the Nordic countries, stretches nearly 1000 miles from well north of the Artic Circle almost to the 55th latitude. Most of the 8m population and the industrial activity is concentrated in the southern half of the country - though, unusually for Europe, much of industry is dispersed away from the towns. The principal towns are Stockholm, Göteborg (Gothenberg), Malmö, Hälsingborg, Gävle, Sundsvall, Umeå and Luleå.

The Swedish economy is highly industrialised, with a marked trend to automation. In line with this and with the high standard of living, per capita fuel utilisation is also high. Oil, with some coal and coke (all imported), accounts for more than 2/3 of the energy; hydroelectric power for 1/5; the remainder is provided by wood and a growing contribution from nuclear energy.

Forests, extensive in the north and west, and the resulting wood products (pulp, hard and soft board, paper, card, etc.) play a very important part in Sweden's economy; concomitant air and water pollution problems attract appropriate attention. Rich deposits of iron ore at Kiruna and Gällivare in the far north and at Bergslagen in the centre are intensively mined. Most of this ore is exported but about 20% is smelted in Sweden, at several locations, and converted into high-grade steel. Lead, copper, zinc and some uranium are also worked. There is an important glass industry in the southeast (Kosta and Orrefors), and textile manufacture in the southwest (Borås). Chemicals and motor manufacture add to the list (Trollhätten). In the main, Swedish industry manufactures technically advanced machinery, instruments and other products that require extensive technical research and development. This well-developed technical background in a prosperous country is reflected in the methodical and scientific approach to air pollution problems.

Political features

Interest in environmental conservation is intense in Sweden and all political parties have it as an important point in their programmes. The chief action has long been taken against pollution of water, but air pollution is now increasingly coming within the ambit of new control measures. As an indication of the Government's concern with the problems of air and water pollution, the Budget for the period July 1969 to June 1970 contains an item of approximately $10 million to be used to stimulate industry to invest in purification plants. It is proposed that the Government should normally contribute 25% of the costs of projects that have been approved.

Pressure for cleaner air has in the past most often come from local health authorities (Helsonämnder), sometimes as a result of the initiative of an offended private individual. However the entire nature conservancy field is currently being transformed. Following the proposals of a special commission, since July 1967 a new administrative organisation covering the entire nature conservancy field has been functioning in Sweden. The central authority is the Statens Naturvårdsverk (National Nature Conservancy Office). S.002

Active cooperation in an atmosphere of mutual confidence between public authorities and industry has long been a feature of Swedish conservation. Individual industrial companies also cooperate in solving such problems, either directly or through industrial associations or research institutes. It is believed that this cooperative attitude will lead to rapid progress in environmental pollution control.

Present controls

Historically, Swedish legislation in this field consists of miscellaneous regulations under Acts on public health, town and country planning, building construction, traffic, etc. Competence for taking action lies in the local authorities (Länsstyrelser). However, under common law, private individuals affected by nuisance may bring suit for damages and/or an injunction before the ordinary courts.

In 1964, the Statens Naturvårdsnämnd (National Committee for Air Conservation) was made the central agency for the prevention of air pollution in Sweden, with the object of furthering and coordinating this work. In December 1966, proposals for a unified law on air conservation (to be combined with existing legislation on water pollution) were presented to the Government, and in July 1969 these activities culminated in new legislation for the protection of the environment (Miljöskyddslagen) and in the re-formation of the National Committee as the Statens Naturvårdsverk (National Nature Conservancy Office). S.002

The basic law places responsibility for taking preventive measures on the person whose activities may be potentially prejudicial to the environment. The preventive measures shall be based on the most effective technical devices and methods existing in that region, with due regard for the effects of the nuisance

and for the usefulness and economics of the activities. Operating permits (or specific exemptions) are required for many operations. These are obtained through the Naturvårdsverk, with appeal to the S.002
Koncessionsnämnd (Concessions Board) if need be; direct application to the Koncessionsnämnd can also be made. (A longer description of the basic law is given in Appendix I.) S.003

Regulations (Miljöskyddskungörelsen) under the basic law will control various specific aspects of pollution. Thus, on 1 July 1969 a new law came into force limiting the sulphur content of fuel oils to 2.5%. Local health authorities have the right to set lower limits for their urban areas, and in the big towns of Stockholm, Göteborg and Malmö have set limits of 1.0%S; this practice is expected to spread eventually to all towns of more than about 50 000 inhabitants.

Recent amendments to the Road Traffic Ordinance (in force from 1 January 1968 and 1 July 1969 respectively) limit pollution due to emissions from petrol as well as diesel-powered cars. As regards petrol-powered cars, it is prescribed that they must be provided with an efficient device to prevent emission of gases from the crankcase of the engine.

Trends

The coherent legislation on environmental legislation is sufficiently recent that many aspects remain to be appreciated. There is a generally optimistic atmosphere, however, both on the part of the Naturvårdsverk who have to make it work and amongst those who are most affected.

Current limits on fuel sulphur may be accompanied shortly by smoke emission limits (of possibly 1g/kg fuel) - probably first in Stockholm.

There is also a proposal for the progressive reduction of lead in gasoline (reduced to 0.7 g/litre from January 1970) by further reductions of 0.1g/l every other year.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

At the centre of environmental conservation activity in Sweden is the Statens Naturvårdsverk (National Nature Conservancy Office). This S.002
body, administratively part of the Ministry of Agriculture, is responsible for coordinating all the research, technical information and implementation of conservation controls in the country, and also for coordinating and assisting the surveillance functions of the regional Naturvårdsnämnder (Nature Conservancy Departments) of the Länsstyrelser (County Councils).

The Naturvårdsverk prepares and publishes detailed guidelines and other information for the implementation of the Miljöskyddslagen and -kungorelser (environmental conservation law and regulations) as they affect various industrial operations. Expert advice is given on individual pollution problems, including such aspects as monitoring instrument choice and calibration. The Naturvårdsverk also undertakes surveys of special installations as need be.

The organisation of the Naturvårdsverk is shown in Appendix II. The Luftvårdsbyrå (Air Quality Division) is divided into three Sections, respectively for Industry, Municipal and Noise problems.

The Industrisektion (Industry Section), through a number of expert committees, is preparing emissions criteria for significant industries. These committees include representatives of the industries concerned. Consideration is given to the level of present emissions, to the technical possibilities for abatement, and to the cost of doing so. The resulting criteria are then put forward as the basis for regulations.

The Kommunalsektion (Municipal Section) is concerned with such matters as incineration, the sulphur content of oil fuels, vehicle exhaust gases and lead in gasoline. A similar cooperative procedure is employed to involve the opinions of those affected - local authorities and industry.

The Bullersektion (Noise Section) is not yet operational.

The Naturvårdsverk has laboratory facilities at Studsvik (at the Nuclear Energy Research Centre). These have previously handled only water problems but are being developed to include air pollution facilities to enable surveys of emissions and ambient air quality to be made for local authorities and regional administrations.

Industrial operating licences or dispensations are granted by
the Naturvårdsverk in the light of the conservation needs of the
area and the preventive measures of the installation. Appeals
can be made to the Koncessionsnämnd (Concessions Board), but S.003
industry may also make direct application for a licence to the
Koncessionsnämnd if preferred. The Koncessionsnämnd consists of
thirteen nominated individuals from which groups of four are
selected, comprising a legally-trained chairman, a qualified
expert, or two independent members without interest in the case
under consultation. The system remains, as yet, untried.

Another relatively new body is the Miljövårdsberedning S.001
(Environmental Conservation Advisory Committee). This meets
4-6 times a year for the presentation of a summarising semi-
technical lecture and for the consideration of important air
pollution topics. The Jordbruksdepartementet (Ministry of
Agriculture) provides the chairman and the wide representation
of Swedish interests amongst the members forms part of the
cooperative decision-making process characteristic of Swedish
government. The members of the Miljövårdsberedning are listed
in Appendix III.

S.004 The Statens Giftnämnd (National Poisons Board) is the body which is responsible to the Government for defining maximum acceptable concentrations of toxic hazards. It similarly advises the Hälsovårdsnämnder (local health boards) of the various communities in matters of concern about the toxic effects of pollutants.

Practical research into problems of air pollution is carried out in Sweden by organisations falling into two broad categories: national institutes under more or less direct government control, and institutes at universities and technical high schools (högskoler).

S.008 The Statens Institut för Folkhälsen (National Institute for Public Health) provides the principal source of research information and advice on hygiene aspects of air pollution. The Omgivningshygieniska Avdelning (Department of Environmental Hygiene) under Pof. Lars Friberg has a large group undertaking epidemiological and exposure measurements of the effects of air pollutants, singly and in combination. The social consequences of this Department's work are accepted by the Naturvårdsverk for consideration in the development of air quality criteria or in the granting of industrial operating licences. This Institute is alone in Sweden in providing training for the hygiene inspectors of local authorities. Close liaison is maintained with similar overseas institutes, and with NAPCA/APTIC.

S.007 The very large Försvarets Forskningsanstalt (FOA - Defence Research Establishment) also contributes to air pollution research. There are four FOA Divisions:

FOA-1 : chemistry and medicine
FOA-2 : physics, ballistics, explosives, propellants, and detectors.
FOA-3 : electronics (radar, etc)
FOA-4 : nuclear physics and chemistry

Most of the air pollution contribution derives from the biological/chemical work of FOA-1, but FOA-2 provides information on mechanisms of combustion and FOA-4 on ambient radioactivity. Although work on air pollution is incidental to the principal defence research objectives of the organisation, considerable civil application is foreseen and this aspect may be developed formally. The work covers a wide range of pollution topics and the results are freely available unless secrecy is essential. Many appear in FOA's own semi-technical journal "Orienterar OM" published at irregular intervals; many are published in the international technical and scientific journals, or appear as duplicated notes.

S.010 The Statens Växtskyddsanstalt (National Plant Pathology Institute) includes the possible effects of air pollutants in its advisory service on plant diseases. Much of this aspect of the work has been done in the Botany Dept. by Dr. Lihnell, but he retires shortly and future activity on pollutants is still uncertain.

In the academic world, research on various aspects of air pollution is carried out in faculties of the Universities of Stockholm, Uppsala, Lund, Göteborg (Gothenburg) and Umeå. Summarised briefly:

Analytical techniques for urban pollutants and metabolic artefacts are developed in the Institute for Analytical Chemistry at Stockholm University. S.031

The Meteorological Department of Uppsala University has studied pollution in several Swedish towns and, through studies of dispersing has produced a method for stack height calculation which is made available through the Statens Meteorologiska och Hydrologiska Institut (National Meterological and Hydrological Institute). Also at Uppsala, some work on the effects of pollutants on plants is carried out by the Plant Biology Department. S.032 S.033

An important figure in air conservation in Sweden is Prof. Dr. Cyrill Brosset, whose activities, based on the Chalmers Tekniska Högskole and Silikatforskningsintitut at Göteborg but extending also into the industrial field (see also IVL and IVL.AB below), are tabulated in Appendix IV. Prof. Brosset's close connection with the Silicate Research Institute has permitted the development of valuable analytical techniques for use in commissioned surveys and in the investigations of long range pollutant drift. On the other hand, the Chalmers Technical University's Institute for Inorganic Chemistry, where Prof. Brosset has a teaching responsibility, provides the practical assistance for the surveys, as well as operating one of the OECD "remote" survey stations. Prof. Brosset is also active in national and international committees. S.017 S.034

All major industries in Sweden are represented in the powerful and well-organised Sveriges Industriforbund (Federation of Swedish Industries) - see Appendix V. This develops coordinated views on pollution problems, which are then put forward through Naturvårdsverk and other official groupings. A monthly news magazine ("Tidskrift") and circulars (Circulära) maintain a strong information flow. S.011

The Institut för Vatten- och Luftforskning (IVL - Institute for Water and Air Research) is an important government-industry cooperation, playing a very significant part in the investigation and abatement of industrial air and water pollution. Originating in concern about the water pollution problems of the forest products industry, the IVL was formed in 1965. It is financed to about S.Kr. 2m/Y equally by the Jordbruksdepartementet (Ministry of Agriculture) and the **Stiftelsen Institutet för Vatten - och Luftforskning** (SIVL - Foundation for Water and Air Pollution Research), a body established for the purpose through the initiative of the Sveriges Industriförbund. S.012

Research proposals considered by the IVL originate from many sources, including the Naturvårdsverk (which has not hitherto undertaken practical air pollution work itself). Preference is given to problems of wide industry concern. The majority of research projects are contracted out to research institutes and similar organisations; the rather limited staff of the IVL handles the remainder in its own laboratories. Problems of water pollution have historically drawn the greatest attention (~85% in 1968) but the air pollution effort, which is concentrated at Göteborg (Gothenburg) is expected to reach 33% in 1970. Recent efforts were concentrated on assessing or abating odours from pulp mills. The IVL publishes its work in "IVL-Nytt" ("IVL News"), in internal reports and in various journals, and at an Annual Conference.

S.013

Under the agreement with the Swedish Government establishing the IVL, the SIVL agreed to set up a separate commercial consultancy organisation, Industrins Vatten- och Luftvård AB (IVL.AB - Industrial Water and Air Pollution Control Co.) to resolve industrial pollution problems of individual installations on commission. IVL and IVL.AB share a common management, which brings benefit in the efficient consideration of problems and of solutions. IVL.AB has its air pollution department in Göteborg. While most of its work is still concerned with water pollution problems, especially of the pulp industry, problems of air pollution are increasingly being handled.

Both IVL and IVL.AB have a reputation for impartiality, and Government and industry rely increasingly on their recommendations.

APPENDIX A

Summary of

SWEDISH LEGISLATION FOR PROTECTION OF THE ENVIRONMENT *

On July 1st 1969 new legislation for the protection of environment will be coming into force in Sweden. This legislation gives a combined regulation of different kinds of environmental disturbance. An account of some of the salient features of the new legislation is given in the following.

Field of application of the legislation. The legislation for the protection of environment is applicable to the use of real estate for activities potentially prejudicial to the environment, or, as the law has it "the discharge of waste water, solid substance or gas from land, building or installation in watercourse, lake or other catchment area or basin; use of land, building or plant in ways that otherwise may entail pollution of watercourse and so on; use of land, building or plant in ways that may entail nuisance for persons in the vicinity through air pollution, noise, vibration, light or the like, if the nuisance is not just temporary".

Rules for permission. A central section in the legislation for the protection of environment is constituted by the rules indicating the conditions upon which a certain activity may be carried on. The fundamental principle behind these rules is that immissions are to be precluded as far as this is practically possible and that in every case unnecessary immissions ought not to be tolerated. The law lays it down that "any person carrying on or intending to carry on activities potentially prejudicial to the environment must adopt preventative measures, accept the restriction of the activities and observe the precautionary measures which may otherwise reasonably be required to preclude or remedy nuisance". Auxiliary rules complementing this generally worded fundamental rule lay it down that the obligation to adopt preventive measures etc. shall be judged in the light of what is technically possible. In this connection the point of departure shall be the most

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* Summary prepared by Statens Naturvårdsverket.

effective technical devices and methods existing in the region in question. Thus technical advances are constantly to be taken into consideration for the benefit of environmental protection. A balance shall also be struck between the nature of the exposed region and the importance to be attached to the effect of the nuisance on the one hand, and the usefulness of the activities and the costs for the preventive measures on the other hand. If special reasons exist an activity inimical to the environment may be permitted despite the fact that it gives rise to a considerable nuisance factor. The special reasons may probably be taken to refer to cases in which from public and private points of view there is a clearly documented dip of the scales on the side of usefulness.

Pre-testing. For certain kinds of activity - those which are known to have a very radical and serious effect on different interests - the legislation makes it incumbent upon the party concerned to apply for a permit before the activity is started. For certain other kinds of activity a report to the provincial government is sufficient. The activities for which it shall be incumbent upon the party concerned to apply for a permit or those where a report is sufficient are defined in a royal ordinance, which is more easily changed and supplemented than an Act. A permit may be applied for also for other activities, even where it is not a legal obligation to do so. This procedure gives the applicant a certain security.

Exemption. The obligation to apply for a permit is not, however, in all cases absolutely binding. The Nature Conservancy Office may on application in each particular case grant exemption from this obligation. The testing for exemption is intended to be a central and important part of the testing procedure. In a question of exemption the Nature Conservancy Office must through inter alia negotiations arrive at an agreement with the applicant concerning the conditions that are to apply for the activity. A decision for exemption has not, however, the binding force of a formal legal decision and it may be preceded by careful investigations of the nuisance factors and prescriptions concerning

APPENDIX A (continued)

preventive measures it does in practice imply a certain security for the enterpriser (the applicant).

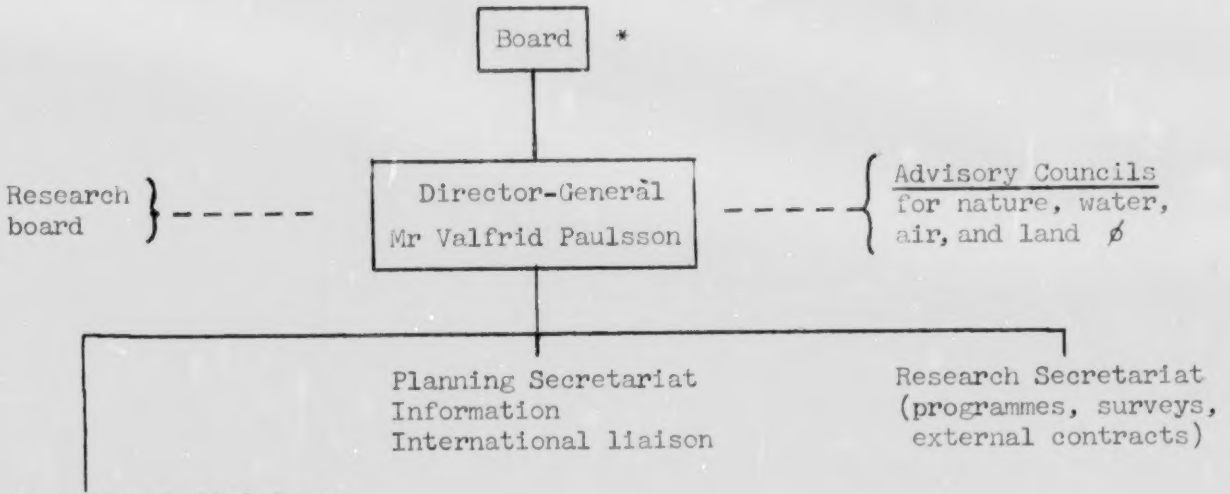
Concessions Board. The testing for a permit is done by an administrative authority, which can, it is considered, adjust to desiderate in particular cases more effectively, quickly and flexibly than a court of law, since conference between authorities and the applicant can take place in freer forms than are compatible with the rules governing a court of law. A special Board - the Concessions Board for the Prctection of Environment - is, with other bodies, responsible for the testing. It has to a certain extent a position analogous to that of a court of law, but is rather to be regarded as an impartial organ for arbitration. It consists of a legally trained chairman, a qualified technician and two members without affiliation. Appeal against a decision by the Concessions Board may be made to the King in Council. There are certain possibilities of reconsidering prescribed conditions etc.

Inspection. The work of the authorities connected with the protection of environment is not restricted to testing applications for permits and the like. They must also take an active part in the tracing of cases where preventive measures are needed, supervise sources of nuisance and see to it that the preventive regulations are duly observed. The Nature Conservancy Office is responsible for the central inspection and the provincial governments for the current routine inspection. The inspecting authorities must in the first place try to have conditions remedied on a voluntary basis. However, the authorities have effective coercive resources at their disposal, e.g. the requiring of a special test by the Concessions Board concerning a prohibition or obligation to adopt preventive measures.

APPENDIX B

STATENS NATURVÅRDSVERKET

National Nature Conservancy Office


Board *
Research board
Director-General
Mr Valfrid Paulsson
Advisory Councils for nature, water, air, and land ø
Planning Secretariat
Information
International liaison
Research Secretariat (programmes, surveys, external contracts)

Operational divisions

Nature conservation	(Mr. L. E. Esping + 24)
Water conservation	(Mr. B. Hawerman + 37)
Air quality	(Dr. G. Persson + 18)
Research laboratory	(Dr. L. Hannerz + 35)
Administration	(25)

Sections: +
- industry
- municipal
- noise

* Members of the Naturvårdsverk Board

General direktör Valfrid Paulsson
Redaktör Göran Holmberg
Lantbrukare Thorbjörn Fälldin
Kommunalrådet Torsten Henrikson
Direktör Rutger Martin-Löf
Försäkringsdomare Carl Axel Petri
Ombudsman Nils Ramstén

ø Members of the Luftvårdsråd (Air Quality Advisory Council)

Generaldirektör Valfrid Paulsson
Professor Cyrill Brosset
Professor Largs Friberg
Professor Gideon Gerhardsson
Arkitekt Torsten Hansson
Direktör Olle Jansson
(continued)

APPENDIX B (continued)

(Members of the Luftvårdsråd (Air Quality Advisory Council) cont.)

Filosofie doktor Bengt Lundholm
Direktör Folke Nilsson
Generaldirektör Alf Nyberg
Justitierådet Ingemar Ulveson

+ Members of the Luftvårdsbyrå (Air Quality Division)

Göran Persson
Alf Grennard

Industrisektionen

Lars Lindau
Rolf Bläster
Olle Åslander
Bo Assarsson
Hans Fransson

Kommunalsektionen

Olov von Heidenstan
Bengt Westergård
Stig Andreasson

Bullersektionen

Carl Erik Tryse
Roland Enefalk

APPENDIX C

Miljövårdsberedningen (S.001)
Environmental Conservation Advisory Committee

President

Jordbruksminister Ingemund Bengtsson
(Ministry of Agriculture)

Jordbruksdepartementet
Fack
103 10 STOCKHOLM 2

Chairman

Direktör Sven Ahlgren
(Association of Swedish Municipal Officers)

Sveriges Kommunaltjänstemannaförbund
Box 5101
102 43 STOCKHOLM 5

Professor Per Brinck
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Lunds Universitet
Zoologiska Institutionen
Helgonavägen 3
223 62 LUND

Professor Sven Brohult
(Academy of Engineering Sciences)

Ingeniörsvetenskapsakademien
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102 42 STOCKHOLM 5

Professor Cyrill Brosset
(Swedish Silicate Research Inst)

Svenska Silikatforskningsinstitutet
Gibraltargatan 53
412 58 GOTEBORG

Professor Erik Bylund
(Umeå University)

Umeå Universitet
901 87 UMEÅ 6

Direktör Ingmar Eidem
(Phosphate Company)

Fosfatbolaget
Kardellgatan 1
Box 5052
102 42 STOCKHOLM 5

Professor Arne Engström

Forskningsberedningen
Utbildningsdepartementet
Fack
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Generaldirektör Martin Fehrm
(Office of Technical Development)

Styrelsen för Teknisk Utveckling
Fack
100 72 STOCKHOLM 43

APPENDIX C (continued)

Professor Lennart Holm (National Planning Office)	Statens Planverk Box 22027 104 22 STOCKHOLM 22
Redaktör Göran Holmberg	Veckotidningen VI Fack 105 65 STOCKHOLM 15
Professor Bo Holmstedt (Karolinska Inst.)	Karolinska Institutet Solnavägen 1 171 64 STOCKHOLM 60
Planeringschef Erik Höök (Ministry of Finance)	Finansdepartementet Fack 103 10 STOCKHOLM 2
Departementsrådet Allan Johansson (Ministry of Agriculture)	Jordbruksdepartementet Fack 103 10 STOCKHOLM 2
Lantbrukare Paul Larsson	Vendle 725 90 DINGTUNA
Hovrättsrådet Inge Lekman (Environmental Protection, Concessions Board)	Koncessionsnämnden för Miljöskydd Fack 103 10 STOCKHOLM 2
Apotekare Rune Lönngren (Poisons Board)	Giftnämnden Box 17106 104 62 STOCKHOLM 17
Laborator Svante Odén (Land Utilisation Tech. College)	Lantbrukshögskolan 750 07 UPPSALA 7
Docent Hans Palmstierna (Environmental Conservation Advisory Committee)	Miljövårdsberedningen Mynttorget 1 111 28 STOCKHOLM
Generaldirektör Valfrid Paulsson (National Nature Conservancy Board)	Statens Naturvårdsverk Fack 171 20 SOLNA 1
Ombudsman Nils Ramstén	Landsorganisationen Barnhusgatan 18 111 23 STOCKHOLM

APPENDIX C (continued)

Generaldirektör Bror Rexed (Office for Social Affairs)	Socialstyrelsen Fack 101 10 STOCKHOLM 1
Professor Wilhelm Rodhe (Uppsala U., Limnology Inst.)	Uppsala Universitet Limnologiska Institutionen Wahlenbergsvägen 20 755 90 UPPSALA
Borgarrådet Thorsten Sundström (Municipal Council)	Stadshuset Fack 101 10 STOCKHOLM 1

Sekretariat:

Hans Palmstierna, Secretary	Miljövårdsberedningen Mynttorget 1 111 28 STOCKHOLM
Michael Sohlman, Assistant Secretary	- " -
Margaretha Ljungbergh, Clerk	- " -

APPENDIX D

Prof. Dr. Cyrill BROSSET - activities

Chalmers Tekniske Högskole - professor	S.034
OECD remote stations (Civ.Ing. Musold) Particulates sampling (Ing. Andreasson)	
Silikatforskningsinstitutet - director	S.017
Routine surveys - chemical analyses (Mrs. Johansson) X-ray analyses (Mr. Åkerström)	
IVL - director for AP	S.012
Pollution analysis methods (Civ.Ing. Steen) H_2S analysis methods (Civ.Ing. Glennfelt)	
IVL.AB - director for AP	S.013
assisted by Mr. Larsson	
Miljövårdsberedningen - member of Council	S.001
Statens Naturvårdsverket - member of Council	S.002
Nordforsk - attends as appropriate	X.002

APPENDIX E

SVERIGES INDUSTRIFÖRBUNDET

S.011

Federation of Swedish Industries

Member companies:-

Bruksindustriföreningen

Industriförbundets Allmänna Avdelning

Konfektionsindustriföreningen

Svenska Bryggareföreningen

Svenska Byggnadsentreprenörföreningen

Svenska Cellulos- och Pappersbruksföreningen

Svenska Choklad- och Konfektyrfabrikantföreningen

Svenska Garveriidkareföreningen

Svenska Gruvföreningen

Svenska Kvarnföreningen

Svenska Plywoodföreningen

Svenska Skofabrikantföreningen

Svenska Sågverksföreningars Riksförbund

Svenska Trävaruexportföreningen

Svenska Wallboardföreningen

Sveriges Elektroindustriförening

Sveriges Grafiska Industriförbund

Sveriges Kemiska Industrikontor

Sveriges Mekanförbund

Sveriges Tegelindustriförening

Sveriges Varvsindustriförening

Textilrådet

Träindustrins Branschorganisation.

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SWITZERLAND

GENERAL AIR POLLUTION BACKGROUND

Geography

Switzerland is a small country of 5$\frac{1}{2}$m inhabitants where a generally mountainous terrain has profound effects both on social and technological matters. Valley communities guard their local antonomy but may be disproportionately affected by local emissions of air pollutants.

Industrial activity is concentrated in the flatter terrain, especially in the North and West. Zürich is the largest and most industrialised town (pop. $\frac{3}{4}$m): Bern, the seat of the federal government, is smaller (pop. $\frac{1}{4}$m). Other principal industrial towns are: Basel, Zug, Winterthur, Solothurn and Geneva. In the absence of significant mineral resources, Swiss industry concentrates on high value machinery and instruments (ranging from diesel engines to watches) and on chemicals (such as pharmaceutical products and synthetic textiles). In heavy industry there is important cement manufacture and a few steel mills. Energy is mainly derived from hydroelectric power (20%, but fully exploited) and oil (70%), the latter largely light fuel oil for space heating. Nuclear power generation (2%) is increasing; national policy is that no more fossil fuel power stations will be built.

Political features

Politically, Switzerland is a confederation (Eidgenossenschaft) of 22 Kantone/Cantons/Cantone [*][ø] each of which retains its historical autonomy and local traditions of government, and this situation affects the national activity in air pollution control. The smallest political unit is the Commune. In most cantons, a number of communes are grouped into an Amtbezirke (district) for administrative convenience. The public referendum plays an important part in politics; contentious federal legislative proposals may be challenged and must then be submitted to a national referendum.

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[*] The cantons are: Zürich, Bern, Lucerne, Uri, Schwyz, Unterwald, Glarus, Zug, Fribourg, Solothurn, Basel, Schaffhausen, Appenzell, St. Gallen, Grisons, Aargau, Thurgau, Ticino, Vaud, Valais, Neuchatel, Genève.

[ø] Three languages are significant and have equal status: German, French and Italian. They predominate respectively in the North, Southwest and Southeast of the Country.

Present controls

National

Federal initiative in coordinating the control of environmental pollution is limited by the constitutional position of the Federal government and the cantonal prerogative in legislative matters. All the same, partly as a consequence of the building of oil pipelines across Switzerland (and across cantonal boundaries), Federal legislation against water pollution was enacted in the early sixties.

However, outside the customary good neighbour provisions in the Civil Code, there are as yet no specific air quality conservation laws - although a comprehensive Act is in preparation (see below). However, the Bundesgesetz über die Arbeit in Industrie, Gewerbe und Handel (Federal Labour Law in Industry and Commerce) of 1964 does require that all employers shall protect the health of their workers and of the local population with every modern means. These provisions have been used to regulate emissions from the oil refinieries constructed in Switzerland in recent years. For example, tolerance limits were fixed for the emission of sulphur dioxide, and the Eidgenössische Arbeitsinspektorat - Federal Labour Inspectorate ensures compliance. CH.005

Proposals for new or modified plant are submitted to the local commune and then to the cantonal authorities for examination in consultation with the Arbeitsinspektorat, against Federal and Cantonal requirements. Details of proposals must include reference to local nuisance potential and to storage facilities for health-hazardous materials. Failure to conform to licence requirements can, in the ultimate, lead to official closure of the plant. CH.001

The Eidgenössische Kommission für Lufthygiene (Federal Clean Air Commission) has issued a Directive for the Evaluation of Sulphur Dioxide Immissions, in which recommendations for seasonal maximum SO_2 values are given. These recommendations have no legal standing but may be used by the licensing authorities as guide lines. CH.010

Equally without legal backing, the Schweizerische Normen Vereinigung (Swiss Standards Association) has agreed to reduce the maximum permissible sulphur content of light oil fuels to 0.6% with effect from October 1970.

As regards vehicle emissions, limits for carbon monoxide from gasoline engines and on smoke from diesels were introduced with effect from January 1970 for new vehicles and January 1971 for vehicles up to five years old. In addition, the lead content of gasoline is regulated by an Ordinance which also controls such matters as additives in foodstuffs, but there are proposals to transfer all similar regulations to a new toxicology law (see below).

Local

In addition to the Federal regulations for industrial activity, a number of cantons also have ordinances for air quality conservation. Thus, Basel can require that specific remedial measures be taken to abate a nuisance due to dust, smoke or smells.

Other cantons, such as St. Gallen and Valais have calculated necessary stack heights and set SO_2 limits for power plant and refineries in their areas, requiring low-sulphur fuels to be burned during unfavourable weather conditions. Generally, however, the cantons can base action for conservation only on the need to maintain public health.

Administration

Application of all conservation regulations is the responsibility of the appropriate Cantonal government, with the aid of their cantonal laboratory and of the Federal Labour Inspectorate - who can in turn call for assistance from the federal Arbeitsärztlicher Dienst (Occupational Hygiene Service). CH.004

Trends

Current interests

General interest in environmental conservation is quite high in Switzerland, a country very conscious of its tourist attractions. Press articles are frequent, but there is apparently a broad government desire to progress cautiously and to develop optimum action.

In the basically clean environment, attention focusses more closely on specific aspects, notably odours, smoke and sulphur oxides from domestic oil-fired space heating, the lead and benzene contents of gasoline, and noise. Some problems, especially fluorides from an aluminium smelter and cement dust, are of more concern at the cantonal level. Diesel vehicle smoke is of concern, especially in road tunnels, for its odour and effects on visibility.

Proposed controls

The complexity of the present distribution of responsibilities between the Federal, Cantonal and Communal authorities is recognised as impairing the effectiveness of environmental conservation measures. The Federal Clean Air Commission has drafted a new Federal Law which will have the effect of coordinating and centralising conservation administration. However, as the proposed federal legislation intrudes upon the historical field of cantonal competence, it therefore involves a change in the Swiss constitution which may have to be subjected to popular referendum.

The proposed law is concerned with all aspects of environmental impact on the individual: noise, vibration and radiation, as well as air pollution. (It could philosophically also include water pollution but this is already the subject of separate legislation.)

A new toxicology law (Giftgesetz) was recently enacted. To this could be transferred controls on lead in gasoline, currently to be found in consumer products (food) regulations. Much discussed limits on benzene in gasoline could also be introduced into this law, together with other controls on fuels.

Time table

Because a prior change in the constitution is required, it may not be possible to introduce the new Environmental Conservation Law until 1972-3.

RELATIONSHIPS AMONG MAJOR ORGANIZATIONS

CH.001 As explained above, Federal initiative in air concervation is at present limited by the constitutional framework, but changes are in hand. Behind these changes is the Eidgenössische Kommission für Lufthygiene / Commission Fédérale de l'Hygiène de l'Air (EKL - Federal Clean Air Commission). Under the chairmanship of Prof. Högger, this 15-man advisory commission comprises hygienists, toxicologists and politicians (but no industrialists or economists); secretarial facilities are provided by the Eidgenössische Gesundheitsamt/Service Fédéral de l'Hygiène Publique (Federal Office of Public Health) in whose 'Bulletin' the various reports of the EKL also appear. Beside these reports, statements of air conservation philosophy, recommended air quality measurement techniques and standards, and a Richtlinie (Code of Practice) for oil firing have also been issued. The EKL has a budget with which practical investigations in members' own laboratories are supported.

CH.002 The Eidgenössische Gesundheitsamt / Service Fédéral de l'Hygiène Publique (Federal Office of Public Health), to which the EKL is attached administratively, has responsibility for the coordination of air conservation technology with particular regard to public health aspects and has assisted in the development of the proposed legislation. The Office is a part of the Departement des Innern (Ministry of the Interior), there being no separate Ministry of Public Health.

CH.003 A different Ministry, that for Economic Affairs (Volkswirtschaftdepartement) administers the existing air pollution legislation - the Labour Laws - through the BIGA (Bundesamt für Industrie, Gewerbe und Arbeit / Office Fédéral de l'Industrie, des Arts et Métiers, et du Travail - Federal Office for Industry, Commerce and Labour). This is achieved through the surveillance operations of the

Eidgenössische Arbeitsinspektorat (Federal Labour Inspectorate). CH.005
This body, working closely with Cantonal Laboratories or Health CH.011-016
Inspectors, has Kreise (Districts Offices) in the principal industrial regions: Lausanne, Aarau, Zürich and St. Gallen. Practical air quality measurements are, however, made by the Arbeitsärztlicher Dienst, on the initiative of the Inspectorate.

Dr. Högger, chairman of the EKL, is the director for air
pollution matters in the Arbeitsärztlicher Dienst (Occupational CH.004
Hygiene Service), also reporting to the BIGA. This organisation, originating as the medical department of the Zürich Arbeitsinspektorat - which is, like the other Inspectorates, responsible to BIGA - has now been detached as a separate group within the BIGA. As such it provides a pollution surveying service and advice on hygiene matters for all the Labour Inspectorates, always with an emphasis on health aspects as the present law requires. In doing so, extensive knowledge of air quality problems is acquired, which is made available to the EKL through Dr. Högger.

A number of other federal organisations provide air pollution CH.006
information. Thus, the EMPA (Eidgenössiche Materialprüfungsanstalt - Federal Materials Testing Station) has a wide range of referee facilities for measuring emissions, both industrial and vehicular - and including noise. These facilities have also been used in work on diesel smoke
methods in cooperation with 'Saurer', the important Swiss diesel CH.027
engine manufacturer.

The Eidgenössische Meteorologische Zentralanstalt (Federal CH.007
Central Meteorological Establishment) has developed pollution dispersion formulae which take valley situations into account.

The Eidgenössische Agrikulturchemische Versuchsanstalte / CH.008
Stations Féderales d'Essais Agricoles (Federal Agrochemical Research Stations), located in various parts of Switzerland, make investigations on the effects of certain pollutants on crops, and the
Eidgenössische Anstalt für das Forstliche Versuchswesen (Federal CH.009
Forestry Research Establishment) undertakes some similar work on coniferous trees.

The Schweizerische Normen Vereinigung (SNV - Swiss Standards CH.010
Association), with its working group for petroleum products, issues product specifications, which include such limitations as fuel sulphur maxima. Though having no legal force at the present time, there is a possibility that some standards, for instance the fuel sulphur maxima, may become mandatory under the new Clean Air Law.

As air pollution results from only a small number of industries, there is no air quality conservation activity by the Schweizerischer Handels und Industrie Verein (Swiss Trade and Industry Association), to which most Swiss industries and other trade associations belong.

Such activity is, however, shown by the Verein Schweizerischer CH.023
Zement-, Kalk- und Gips-Fabrikanten (Association of Swiss Cement,
Lime and Plaster Manufacturers) who have set up a technical station
at Holderbank to deal with abatement problems in member companies'
plant.

The oil industry is also active. The Schweizerische Erdöl CH.022
Vereinigung (EV - Swiss Petroleum Association) has a group for the
coordination of policy and for discusssion with federal and cantonal
authorities. It has also recently initiated the formation of a
potentially important group, the VFWL (Verein zur Förderung der Wasser- CH.021
und Lufthygiene / Association pour la Sauvegarde de l'Hygiène de
l'Eau et de l'Air - Association for the Conservation of Water and
Air Cleanliness). This body, supported by a wide range of industries
including the federal railways, intends to provide an impartial
supervisory service (comparable with that of the German TÜV's) D.020
supported by the commissioned work. The first activity is in water
quality protection (tank inspection, and so on), but it is proposed
to extend this later to air conservation.

Schweizerische Aluminium AG ('Alusuisse') have in recent CH.024
years undertaken studies of the abatement of fluoride emissions.
(A popular pressure group, now in abeyance, also arose in this
connection: Interparlamentalische Arbeitsgruppe betreff Fluorschäden
im Fricktal.)

Other individual companies also deal with local problems around their works.

In the academic world, air pollution activity is almost wholly
to be found at the Eidgenössische Technische Hochschule (ETH -
Federal Technical University) at Zürich, the only federal institution
of higher education. Here, the Technisch-Chemisches Institut CH.031
(Industrial Chemistry Institute) and the Institut für Hygiene und CH.032
Arbeitsphysiologie (Institute of Hygiene and Work Physiology) are
both undertaking investigations into aspects of air quality.

APPENDIX A

EIDGENÖSSISCHE KOMMISSION FÜR LUFTHYGIENE
COMMISSION FÉDÉRALE *DE L'HYGIENE DE L'AIR*
Federal Clean Air Commission (CH.001)

Membership (for period till December 1972):-

HÖGGER Dieter (Chairman)	Prof. Dr. med., Chef, Arbeitsärztliche Dienst des BICA, Kreuzstrasse 26, 9008 ZÜRICH. (CH.004).	(051) 47 04 80
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BÖHLEN Bruno	Dr. ing. chem. ETH, PD, Oberassistent, Laboratorium für Technische Chemie der ETH, Universitätsstrasse 6, 8006 ZÜRICH. (CH.031).	(051) 32 62 11
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DESBAUMES Paul	Ing.-chim., chef de la Section de toxicologie industrielle et d'analyse de l'air, Laboratoire Cantonal de Chimie, Quai Ecole-de-Médecine 22, 1200 GENEVE. (CH.014).	(022) 25 43 40
GRENDELMEIR Alois	Dr. Jur., alt Nationalrat, Rechtsanwalt, Utoquai 39, 8008 ZÜRICH.	(051) 34 62 34
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KELLER Theo	Dr. sc. tech., Sektionschef, Eidg. Anstalt für das Forstliche Versuchswesen, 8903 BIRMENSDORF. (CH.009).	(051) 95 44 11
LEUPPI Felix	Dipl. Chem. HTL, Vorsteher des Amtes für Lufthygiene des Kantons Basel-Landschaft, Rheinstrasse 31, 4410 LIESTAL. (CH.013).	(051) 84 33 21

APPENDIX A (continued)

LOB Marc	Dr. méd., chargé de cours pour la médecine du travail, spécialiste FMH médecine interne, 8 Grand-Chene, 1000 LAUSANNE. (CH.015).	[illegible]
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HANDSCHIN Bernhard	Sektionschef, Eidg. Gesundheitsamt, Bollwerk 27, 3001 BERN. (CH.002).	(031) 22 60 91

U.S.S.R.

Physical and Demographic Features of the USSR

The USSR is the largest country in the world - 8,647,000 sq. miles, mostly in plains except for the Ural and Caucasus Mountains. It has coastal boundaries on the Pacific Ocean and the Baltic, Black and Caspian Seas. Its climate varies from arctic to sub-tropical and its land varies from desert to fertile. Its population is 235,000,000 - 54% urban; 46% rural.

The Russian Soviet Federated Socialist Republic (Soviet Russia proper, including Siberia) contains over 50% of the population and includes 75% of the territory. The most densely populated republic is the Ukranian Soviet Socialist republic with a population density of 205 per square mile. The least densely populated republic is the Turkmenian Soviet Socialist Republic with a population density of 10.4 per square mile.

The USSR has 50 cities of over 350,000. This includes seven of over a million, namely Baku, Gorky, Kharkov, Kiev, Leningrad and Moscow in Europe, and Tashkent in Asia. Leningrad is over 3,500,000 and Moscow is over 6,500,000.

Political Features of the USSR

The USSR is a federation of fifteen socialist republics, having, as its Federal Parliament, a Supreme Soviet; and, as its executive branch, a Council of Ministers of the USSR. The Council has a President, a Chairman of the Presidium and a Presidium of eleven members. Parallel with this federal structure is the structure of the Communist Party of the Soviet Union, which has a separate "parliament", called the Central Committee; and a separate Presidium and Secretariat. In general, policy is originated in the party structure, and executed in the governmental structure. There are a number of federal ministries, each headed by a minister. The capital city is Moscow.

The federal ministries include many of those found in non-communist countries, such as Agriculture, Culture, Defense, Education, Finance, Health and Labor; those found in countries which have nationalized their railroads and public services, such as the Ministries of Telegraph and Telephone and of Means of Communication, and also a group of industrial ministries unique to countries which have nationalized all their industries, e.g. Ministries of Automobile Industry, Chemical Industry, Coal Industry, Construction Materials Industry, Ferrous Metallurgical Industry, Natural Gas Industry, Non-Ferrous Metallurgical Industry, Oil Refining and Petrochemical Industry, etc.

The federal structure and the Communist Party structure, and their relationships as noted above, are replicated in each of the fifteen union republics: the Russian Soviet Federated Socialist Republic, and the Ukrainian, Byelorussian, Uzbek, Kazakh, Georgian, Azerbajdzhanian, Lithuanian, Moldavian, Latvian, Kirghiz, Tadzhik, Armenian, Turkmenian, and Estonian Socialist Republics.

The entire USSR is divided into 120 oblasts and 5 krajs (large oblasts) for administrative purposes. There are 20 autonomous republics, 10 autonomous oblasts, and 10 national okrugs - areas delineated on primarily ethnic grounds. Within each republic, oblast, kraj, okrug, and municipality there is an internal horizontal structure. There is also a vertical structure relating a similar activity, e.g. public health, through all jurisdictional levels from federal through republic to municipal.

The Supreme Soviet has permanent commissions in a variety of areas, including Industry, Transport, Education, Science, Agriculture, etc. The Council of Ministers has a State Planning Commission (GOSPLAN) and a group of State Commissions and Committees. Among these are the State Committee for Science and Technology, which, in principle, provides overall coordination of Research and Development in the USSR. In fact, it shares this responsibility with the State Planning Committee (Gosplan) and the Academy of Sciences of the USSR. SU-001

Air Pollution Features of the USSR

By virtue of its size, diversity and industrialization the USSR is subject to the entire gamut of air pollution sources and problems. The European part of the Soviet Union is the most populous and the most industrialized, and is therefore also the most concerned with air pollution.

The principal difference between air pollution control in the USSR (and other communist countries) and in non-communist countries, is that in the latter there are three separate groups involved: the private citizen (by virtue of his ownership of a home, an automobile and other sources of pollution), private industrial and commercial organizations, and the government. In the USSR there is only the government, which owns and operates the industrial, commercial, residential and transportation facilities of the nation. Since it is both the polluter and the regulator, the USSR can and does act differently on matters of air pollution control than in non-communist countries. It has limited the population of cities, built new cities, moved heavy industry out of its major cities, installed widespread central heating systems for cities, built pedestrial underpasses to free the flow of traffic, established greenbelts, and used the administrative mechanism of the government to do many things related to air pollution control differently and more rapidly than can be done in a free enterprise economy.

As a result of these actions plus the relatively small number of automobiles on the road, the big cities of the USSR appear to have less air pollution than cities of comparable size in other industrial countries. Thus, the authorities in the USSR appear to devote comparatively more attention to air pollution problems outside their larger cities than in other large industrialized countries.

Organization of Air Pollution Control

A 1949 government resolution on "air pollution control and the hygiene of populated areas" is the basis for the administrative organization of Soviet effort in these fields. The subsequent laws on the "Preservation of Nature" of the Union Republics are the legal basis for air pollution control. An All-union law on the preservation of nature may be adopted in 1969.

The Ministries of Public Health of the Union and of the Republics have the authority to establish and enforce sanitary norms and regulations for all ministries and agencies. The State Sanitary Inspectorate is the agency within the Ministries of Public Health which is empowered to enforce these regulations. The State Sanitary Inspectorate may levy fines against offenders, close offending plants and shops, and in severe instances bring the matter before the State Procurator. SU-002

The State Sanitary Inspectorate operates through the Sanitary-Epidemiological Service, which maintains sanitary-epidemiological stations on the Republic, oblast, kraj, municipal, and area levels. SU-011, 043-4

The Ministry of Public Health has established maximum permissible concentration for over one hundred chemical substances and some combinations of chemical substances, in the atmosphere. A list of these quality standards as of 1968 is given in Appendix I. In addition, a system of sanitaryprotection zones has been established, of varying sizes for various types of industrial enterprises. At present, there are 5 such classes of protective zones, depending on the type of enterprise, its size, and the gas-cleaning devices utilized. There is an inter-agency service for the design, construction, and inspection of gas-cleaning facilities: the All-Union Cooperative for Gas-cleaning and Dust Control of the Ministry of the Oil-refining Industry. SU-002-6 Appendix A SU-063-9

Funding for air pollution control and research is accomplished as follows: a) gas-cleaning installations and other operations are included in the basic planning of the National Economy; b) Ministries plan specific measures applicable to their particular needs, which are financed by the government.

Additionally, the Soviet Government engages with other countries in mutual air pollution abatement programs through the COMECON (Council for Mutual Economic Aid) Commission for Coordination of Scientific and Technological Research.

Air Quality Monitoring

There is a national air quality monitoring network operated SU-035
by the Main Hydro-Meterological Administration of the USSR, which monitors
atmospheric SO_2, CO and particulate matter. In addition each local
Sanitary-Epidemiological Station monitors the air of its jurisdiction. SU-011, 043-4

The principal agency concerned with meteorological research
in the USSR is the Main Hydro-Meteorological Administration of the SU-035-8
Council of Ministers of the USSR, particularly the Voeikov Observatory
in Leningrad.

Air Pollution Research and Development

The main planning body for research and development in the
USSR is the State Committee for Science and Technology. The Committee
consists of a Presidium, General Assembly, College, Departments, and
Academic Problem Councils. This is the parent body of the key Scientific
Council on the Problem "the Protection of the Atmosphere from Air Pollution".
This Committee also sponsors the All-Union Institute of Scientific SU-001
and Technical Information.

There are two other bodies that coordinate research on an all-union level: the USSR Academy of Sciences, and the State Planning Commission.

The USSR Academy of Sciences operates a number of research SU-039-
institutes of agriculture, foresty, geology, metallurgy, mining, chem- 041;096-099
istry, physics, economics, engineering, and polytechnic institutes, some
of which are concerned with air pollution. There are parallel Republic
Academies of Science in each of the Union republics. These operate their SU-049-
own research institutes which are similarly concerned with problems in 052;104-109
air pollution.

There is also an Academy of Medical Sciences of the USSR within
the Ministry of Public Health. This includes a "Problem Commission SU-003
on the Scientific Importance of the Scientific Bases of Hygiene of
Populated Areas," which has a section on Sanitary Protection of the SU-004-5
atmosphere. The medical Academy operates a number of research institutes.
Those most closely related to air pollution are the Sysin Institute SU-007-
of General and Communal Hygiene, the Labor Hygiene and Occupational 009;164
Diseases Institute and the Institute of Experimental and Clinical
Oncology. The Academy also has an All-Union Committee on the Scientific SU-006
Basis of Labor Hygiene and Professional Pathology, which has a standing
committee on Maximum Permissible Concentration of Toxic Substances in
the Atmosphere of Industrial Premises. In 1965 there were, in the USSR,
3000 medical research institutes, 86 medical institutes (for training
of physicians), 6 university facilities of medicine, and 14 university
faculties for advanced medical education.

In addition to the academic institutes under the Academy of
Sciences, the several ministries of the USSR operate a series of technology
research institutes which specialize in the training of personnel.
Those of greatest relevance to air pollution are under the aegis of the SU-012-
Ministry of Public Health. There is also a considerable amount of 033;086
research done in the teaching institutions operated by this ministry, SU-127-
the most important of which is the Central Institute for Advanced Medical 163
Studies. Other USSR Ministries that operate relevant institutes of
technology are the Ministries of Oil Refining and Petrochemical Industry; SU-064-
Natural Gas; Coal; Chemical Industry; Ferrous Metallurgy; Non-Ferrous 072;073-78
Metallurgy; Automobile Industry and Construction Industry. SU-074-84
SU-085

The teaching institutions under the Ministry of Higher and
Secondary Special Education of the USSR are also engaged in research.
One of particular interest in air pollution control is the Ivanovo SU-165
Power Engineering Institute (im. V.I. Lenin).

At the Republic level, as would be expected, the one having
the greatest number of relevant institutions is the Russian Soviet
Federated Socialist Republic (RSFSR), which include the largest centers
of population and industry. The Ministry of Public Health of the RSFSR
sponsors several important research and training institutes, including SU-042
the Erisman Moscow Hygiene Research Institute, the First and Second
Moscow Medical Institutes, and the Leningrad Sanitary-Hygiene Medical SU-166-7;
Institute. The Ministry of Higher and Secondary Special Education of 168
the RSFSR sponsors some of the more important universities, particularly
the two largest ones in the USSR Moscow State University (im. M.V. SU-185
Lomonosov), and Leningrad Order of Lenin State University (im. A.A. SU-186
Zhdanov). It also sponsors some of the largest engineering schools in SU-180
the USSR: the Moscow Higher Technical School (im. N.E. Bauman) and the SU-177
Leningrad Polytechnic Institute (im. M.I. Kalinin), as well as a group SU-123-5;
of specialized technical institutes in the fields of fuels, forestry, 178-9;181-
meteorology and chemical, automotive, power, municipal and civil engineering. 4:186

The Ukranian SSR is involved through the Marzeev General and
Communal Hygiene Research Institute (Kiev) of the Republic Ministry of SU-045
Public Health; the Kiev State University (im. T.G. Shevchenko) and SU-188-
several technical, meteorological and engineering institutes of the 193
Republic Ministry of Higher and Secondary Education.

Although the other republics sponsor universities and research SU-046-8
institutes, only a few appear to be of major significance in air pollution 169-172
research and development.

Air Pollution Associations

The closest counterpart to an association concerned with air
pollution is the All-Union Scientific-Medical Society of Hygienists. This SU-062
is the professional society of Sanitary Physicians, who are the group
primarily concerned with air pollution in the USSR. The association has
branches in all republics and major cities in the Soviet Union.

Within the All-Union Council of Scientific and Engineering societies there are societies for the following industries: Building, Chemical, Ferrous Metallurgy, Instrument Building, Light Industry, Machine Building, Municipal Economy and Motor Transport, Non-Ferrous Metallurgy, Oil and Gas, Paper and Wood-Working, Power, and Timber and Forestry.

Bibliographic Resources

The prime source of scientific and technical information is
the All-Union Institute of Scientific and Technical Information. It SU-195
publishes "Referetivnye Zhurnaly", abstract journals of scientific
and technical articles published in Russian, in 123 subject-area special-
ized editions. Each of the principal ministries has its own Scientific-
Technical Information Institute, examples being the Automotive, Metallur- SU-196-9
gical and Instrumentation Industries.

There are three main libraries in the Soviet Union with extensive holdings in technical sciences and medical fields: The Lenin State Library, Kalinin Prospect 3, Moscow; The State Public Scientific and Technical Library, Kusnetskii Most 12, Moscow; and the State Central Medical Library, ploshchad Vosstanie 1/2, Moscow.

There are several categories of scientific and technical pub-
lishers in the USSR; the State Publishing Houses; Appendix II; the Pub- Appendix B
lishing House of the Academy of Sciences of the USSR (ANI) (Akadem.
Nauk Izdat.; Akademkniga); and "Categorical" publishing houses. In many
cases, the name of the categorical publishing house is the same as that
of the State Publishing House listed in Appendix II without the word "State"
as a prefix, and its acronym is the same without the prefix "Gos". Thus
some of these are Khimizdat or Khimiia for Chemical literature, Metal-
lurgizdat for Metallurgical literature, Stroyizdat for Building litera-
ture, Ugletekhizdat for Coal Industry literature, the Medical Publishing
House (Medgiz), the Hydro-meteorological Publishing House (Gidrometeor-
izdat) and the Scientific and Technical Publishing House of Motor Trans-
portation Literature (Autotransizdat). These categories are in many
cases replicated by the individual Republics, e.g. in Azerbaidzhan, there
is an Azerbaidzhan State Publishing House (Azgostekhizdat). Some of the
larger universities and research institutes have their own publishing
houses, e.g. at the Leningrad State University. SU-176

A list of books on air pollution and related subjects is given
in Appendix III. A list of pertinent serial publications is given in II Appendix C
Appendix IV in the approximate order of relevance determined by counting Appendix D
the number of articles carried during the past ten years on problems in
air pollution.

The Medical Reference Journal (Meditsinskii referativnyi Zhurnal) has separate volumes covering all aspects of medicine, and lists all medical articles appearing in Soviet publications.

The journal "Hygiene and Sanitation" (Gigiena i sanitariia) is by far the most important periodical in this field, carrying some 5 to 10 times more articles concerned with air pollution than any other journal. It is available in complete English translation.

Information on these books and periodicals may be obtained from the libraries named above and through the International Book Exchange, Sadovo-Kudrinskaia 1. Moscow. This agency is also the primary source of all periodicals exported from the Soviet Union. Private firms such as Kamkin's Book Store in Washington, D.C. and Four Continents Book Corp., 156 Fifth Avenue, New York, New York 10010 normally act as subscription agents in the United States.

APPENDIX A

USSR Air Quality Standards

(from World Health Organization - 1968)

Substance	Single exposure (approx.- 20 minute averaging time)		24 hour Averaging Time	
	mg/m^3 STP	PPM	mg/m^3 STP	PPM
Acetaldehyde	0.01	0.005	--	--
Acetic Acid	0.2	0.08	--	--
Acetic Anhydride	0.1	0.02	--	--
Acetone	0.35	0.15	0.35	0.15
Acetophenone	0.003	0.0006	0.003	0.0006
Acrolein	0.3	0.12	0.1	0.04
Ammonia	0.2	0.28	0.2	0.28
Amyl Acetate	0.1	0.019	0.1	0.019
Amylene	1.5	0.5	1.5	0.5
Aniline	0.05	0.013	0.03	0.008
Arsenic (as As)	--	--	0.003	--
Benzene	1.5	0.5	0.8	0.25
Butane	200.	85.	--	--
Butanol	0.3	0.1	--	--
Butyl Acetate (-n)	0.1	0.021	0.1	0.021
Butylene	3.	1.3	3.	1.3
Butyric Acid	0.015	0.004	0.01	0.003
Caprolactum	0.06	0.013	0.06	0.013
Caprylic Acid	0.01	0.002	0.005	0.001
Carbon Black (soot)	0.15	--	0.05	--
Carbon Disulfide	0.03	0.01	0.01	0.0033
Carbon Monoxide	3.	2.7	1.	0.9
Carbon Tetrachloride	4.	0.7	--	--
Chlorine	0.1	0.033	0.03	0.01
Chloroaniline (-p)	0.04	0.008	--	--
Chlorobenzene	0.1	0.02	0.1	0.02
Chloroprene	0.1	0.028	0.1	0.028
Chlorophenyl Isocyanate (-m)	0.005	0.001	0.005	0.001
Chlorophenyl Isocyanate (-p)	0.0015	0.0002	0.0015	0.0002
Chromium-hexavalent (as CrO_3)	0.0015	--	0.0015	--
Cyclohexanol	0.06	0.015	0.06	0.015
Cyclohexanone	0.04	0.008	0.04	0.008
Dichloroethane	3.	0.75	1.	0.25
2-3 Dichloro 1-4 Naphthaquinone	0.05	--	0.05	--
Diethylamine	0.05	0.02	0.05	0.02
Diketene	0.007	0.002	--	--
Dimethylaniline	0.0055	0.001	--	--
Dimethyl Disulfide	0.7	0.18	--	--
Dimethylformamide	0.03	0.01	0.03	0.01
Dimethyl Sulfide	0.08	0.03	--	--
Dinyl (diphenyl + its oxides)	0.01	0.0015	0.01	0.0015
Divinyl	3.	1.2	1.	0.4

Epichlorohydrin	0.2	0.05	0.2	0.05
Ethanol	5.	2.5	5.	2.5
Ethyl Acetate	0.1	0.029	0.1	0.029
Ethylene	3.	2.3	3.	2.3
Ethylene Oxide	0.3	0.15	0.03	0.015
Formaldehyde	0.035	0.029	0.012	0.01
Flourides (as F)	0.03	--	0.01	--
Flourides (insoluable)	0.2	--	0.03	--
Furfural	0.05	0.013	0.05	0.013
Gasoline (as C) (from Crude Oil)	5.	1.25	1.5	0.38
Gasoline (as C) (from shale)	0.05	0.01	0.05	0.01
Hexamethylene-diamine	0.01	0.002	0.01	0.002
Hydrochloric Acid (as H+)	0.006	--	0.006	--
Hydrochloric Acid (as HCl)	0.2	0.15	--	--
Hydrogen Flouride	0.02	0.03	0.005	0.00
Hydrogen Sulfide	0.00	0.005	0.00	0.005
Isopropyl Benzene	0.014	0.003	0.014	0.003
Isopropyl Benzene Hydroperoxide	0.007	0.001	0.007	0.001
Lead (as Pb)	--	--	0.0007	--
Lead Sulfide (as Pb)	--	--	0.0017	--
Malathion	0.015	--	--	--
Maleic Anhydride	0.2	0.05	0.05	0.01
Manganese (as Mn)	0.03	--	0.01	--
Mercury (as Hg)	--	--	0.0003	--
Mesidine (2 Amino-1,3,5 trimethyl benzene)	0.003	--	--	--
Methanol	1.	0.75	0.5	0.38
Methyl Acetate	0.07	0.023	0.07	0.023
Methyl Acrylate	0.01	0.003	--	--
Methyl Aniline	0.04	0.01	--	--
Methyl Mercaptan	$9x10^{-6}$	--	--	--
Methyl Methacrylate	0.1	0.025	0.1	0.025
Methyl Parathion	0.008	--	--	--
Methylstyrene (α)	0.04	0.01	0.04	0.01
Naphthaquinone (α)	0.005	0.001	0.005	0.001
Nitric Acid (as HNO_3)	0.4	0.15	--	--
Nitric Acid (as H+)	0.006	--	0.006	--
Nitrobenzol	0.008	0.001	0.008	0.001
Nitrogen Dioxide	0.085	0.045	0.085	0.045
Phenol	0.01	0.0026	0.01	0.0026
Phosphoric Anhydride	0.15	0.026	0.05	0.0085
Phthalic Anhydride	0.2	0.03	0.2	0.03
Propanol	0.3	0.12	--	--
Propylene	3.	1.5	3.	1.5
Pyridine	0.08	0.023	0.08	0.023
Styrene	0.003	0.0007	0.003	0.0007
Sulfur Dioxide	0.5	0.19	0.15	0.58
Sulfuric Acid (as H+)	0.006	--	0.006	--
Sulfuric Acid (as H_2SO_4)	0.3	--	0.1	--
Suspended Particulate Matter (dust)	0.5	--	0.15	--
Thiophene	0.6	0.17	--	--
Toluene	0.6	0.15	0.6	0.15
Toluene Diisocyanate	0.05	0.0071	0.02	0.0029
Tributyl Phosphate	0.01	--	--	--
Trichloroethylene	4.	0.67	1.	0.17
Valeric Acid (-n)	0.03	0.008	0.01	0.003
Vanadium Pentoxide	--	--	0.002	--
Vinyl Acetate	0.2	0.06	0.2	0.06
Xylene	0.2	0.05	0.2	0.05

APPENDIX B

STATE PUBLISHING HOUSES

Gosvoenizdat	State Military Publishing House
Gosgeolizdat	State Geological Literature Publishing House
Gosizdat	State Publishing House
Goslestekhizdat	State Forest Industry Publishing House
Gosmedizdat	State Medical Publishing House
Gosplanizdat	State Planning Commission Publishing House
Gossel'khozisdat	State Agricultural Publishing House
Gosstatizdat	State Statistical Publishing House
Gosstroiizdat	State Building Literature Publishing House
Gostekhizdat	State Theoretical and Technical Literature Publishing House
Gostoptekhizdat	State Petroleum and Mineral Fuel Industry Publishing House
Gostransizdat	State Transportation Literature Publishing House
Goskhimizdat	State Chemical Literature Publishing House
Gosenergoizdat	State Power Engineering Publishing House
Gosatomizdat	State Atomic Energy Publishing House
Goslesbumizdat	State Forest, Paper and Woodworking Publishing House

APPENDIX C

BOOKS ON AIR POLLUTION TOPICS (U.S.S.R.)

I. Communal Hygiene - General

Ryazanov, V. A., ed., A Textbook of Community Hygiene, Medgiz, Moscow (1961)

________________, Problems of Community Hygiene, Kiev (1966)

II. Air Pollution - General

Prechistenskii, S. A., Radioactive Effluents in the Atmosphere, Moscow (1961)
Ryazanov, V. A., The Air in Our Cities, Moscow (1965)
Shabad, L. M. and Dikun, P. P., Pollution of the Atmosphere by the Carcinogen 3.4-benzpyrene, Leningrad (1959)
Shesheikovskii, G. V., Smoke in Towns, Moscow (1947)
Ved'mina, E. A., Sanitary-bacteriological Investigations of the Atmosphere, Moscow (1967)
______________, Pollution of the Atmosphere by Industrial Effluents and Automotive Transport, Advanced Technological and Production Experience (24-63-848/9), Moscow (1963)
Sokolovski, M. W., et.al., The Sanitary Protection of the Air of Moscow, Moscow (1965)

III. Air Pollution Investigation Methodology

Ministry of Public Health, State Sanitary Inspection, (USSR) Methodological Instructions for Ambient Air Pollution Investigations, Medgiz, Moscow (1963)
Ministry of Public Health (Ukranian SSR), Methodological Instructions for Organizing and Conducting Laboratory Investigations of the Ambient Air (27/IV), Kiev (1963)
Hydro-Meteorological Service Administration, Temporary Instructions on the Analysis of Data on the Composition of Air Pollution, Leningrad (1968)

IV. Air Sampling and Analysis

Alekseeva, M. V., et.al., Determination of Noxious Substances in the Air of Industrial Premises, Goskhimizdat, Moscow (1954)
Alekseeva, M. V., Determination of Atmospheric Pollutants, Medgiz, Moscow (1963)
Berezkin, V. G., Analytical Reaction Gas Chromatography, Nauka, Moscow (1966)
Gil'denskiol'd, R. S., et.al., A Method for Taking Atmospheric Dust Samples on Cloth Filters, Moscow (1961)
Gol'dberg, M. S., ed., Methods for Determination of Atmospheric Pollutants, Academy of Medical Sciences (USSR), Moscow, (in draft 1966)
Korenman, M. M., Analytical Chemistry of Small Concentrations, Khimia, Moscow (1957)
Lyalikov, Yu. S., Physico-chemical Methods of Analysis, Khimiia, Moscow-Leningrad (1964)
Peregud, E. A., et.al., Chemical Analysis of the Air of Industrial Plants, Moscow-Leningrad (1965)
Peshkova, V. M. and Gromova, M. I., Practical Instructions on Spectrophotometry, Moscow University Press, Moscow (1966)
Zemlyanitskaya, E. T. and Lugorkin, V. P., New Methods for the Determination of Harmful Substances in the Air of Industrial Plants, Kazan (1967)

APPENDIX C (continued)

V. Transport and Diffusion of Atmospheric Pollutants

________________, Instructions for the Determination of the Dispersion of Harmful Substances (Dust and Sulfur Dioxide) into the Atmosphere from the Effluents of Industrial Plants (SN 369-67—Official Edition, Confirmed 5/11/67) Leningrad (1967)

Beryland, M. E., Meteorological Aspects of Industrial Air Pollution, Moscow (1968)

Beryland, M. E., ed., Problems of Atmospheric Diffusion and Air Pollution, Reprinted from Trudy glav. geofiz. Obs. A. I. Voeikova Nos. 138, 158, 172 (1965), 185 (1966), 207 (1968) and 234 (1968) Gidrometeorizdat-Leningrad

Beryland, M. E., The Climatic Aspects of Research on Air Pollution by Industrial Effluents, in "Current Problems of Climatology," Gidrometeorizdat, Leningrad (1966)

Beryland, M. E., Production and Regulation of the Heat Regime of the Atmospheric Ground Layer, Leningrad (1956)

Lekhtman, D. L., The Physics of the Ground Layer of the Atmosphere, Leningrad (1961)

Abstracts of Papers Presented at International Symposium on Meteorological Aspects of Air Pollution - Leningrad (1968)

VI. Health Effects of Air Pollution

Ryazanov, V. A., ed., Maximum Permissible Concentrations of Atmospheric Pollutants, Medgiz, Moscow
Vol. 1 (1952)
Vol. 2 (1955)
Vol. 3 (1957)
Vol. 4 (1960)
Vol. 5 (1962)
Vol. 6 (1963)
Vol. 7 (1964)
Vol. 8 (1965)
Vol. 9 (1966)

________________, Proceedings, All-Union Conference on Sanitary Protection of the Atmosphere, Moscow (1964)

________________, Theoretical and Practical Problems of Electroencephalography Medgiz, Moscow (1956)

________________, Toxicology of Radioactive Substances, Medgiz, Moscow (1957)

Bronshtein, A. I., Taste and Smell, Medgiz, Moscow-Leningrad (1950)

Elfimova, E. V., et.al., Hygienic Assessment of Atmospheric Pollution in the Vicinity of Ferrous Metallurgical Works, in "Scientific Notes of F. F. Erisman Institute," Moscow (1966)

Gabovich, R. D., Flourine and its Hygienic Significance, Medgiz, Moscow (1957)

Krasovitskaya, M. L., Hygienic Assessment of Ambient Air Pollution by Effluents from Oil Refineries and the Petrochemical Industry, Midgiz, Moscow (1965)

Kryzhanovtskaya, M. V., Methodological Instructions for Experimental Study of the Allergenic Properties of the Chemical Ingredients of Air Pollution, Kiev

Lukomskii, G. I., Flourine in Medicine, Medgiz, Moscow (1940)

Nikogosyan, M. I., Hygienic Characteristics of Ambient Air Pollution by Effluents from the Kanaker Aluminum Works, Erevan (1961)

Pershin, A. A., The Effects of Phosphorite Dust on the Health of the Population of the Residential Area of the Egor'evski Mine, Moscow (1954)

Pinigin, M. A., A Study of Zonal Air Pollution by a Synthetic Textile Plant and its Effects on the Population, Leningrad (1959)

Smailis, V. I., Petrov, V. V. and Sokolov, V. S., Investigation of the Toxicity of Motor Vehicle Exhausts, Trudy CNIDI (No. 47) (1963)

Varshavskii, L. L., ed., Proceedings of a Symposium, Moscow (1966)

________________, Sanitary Norms for Industrial Plant Design (SN 245-63, Moscow (1963)

APPENDIX C (continued)

VII. Control of Air Pollution - Industrial

________________, Cleaning of Effluent Gases in Ferrous Metallurgical Plants, Moscow (1969)
________________, Purification of Waste Waters and Effluent Gases, Kiev (1968)
________________, Removal of Harmful Pollutants from Aqueous Wastes and Gaseous Effluents, Volvograd (1968)
Aleksandrov, D. P., Dust Control During Alumina Loading and Unloading, Advanced Engineering and Production Experience (No. 11-66-80/21), State Institute for Technological and Scientific Information, Moscow (1966)
Baturin, V. V., Industrial Ventilation Basics, Moscow (1951)
Belosel'skii, B. S., and Polrovskii, V. N., The Use of Sulfurous Fuel Oil at Power Stations and Means for Averting the Release into the Atmosphere of SO_2, Moscow (1964)
Chizhikov, V. A., Building Material Production and Several Other Branches of Industry as Sources of Air Pollution, Moscow (1968)
Gordon, G. M., ed., Dust Removal and Gas Cleaning in Non-Ferrous Metallurgy, Collected Scientific Works No. 24, The State Non-Ferrous Metallurgy Research Institute, Moscow (1966)
Gordon, G. M. and Pelsahov, I. L., Dust Removal and Gas Cleaning in Non-Ferrous Metallurgy, Metallurgizdat, Moscow (1958)
Gordynya, N. P., Methodological Instructions for Air Pollution Control at Ferrous Metallurgical Plants, Kiev (1966)
Kalina, L. A., Gas Cleaning for the Operator, Moscow (1968)
Kalyuzhnyi, D. N., et.al., Sanitary Control of Atmospheric and Water Pollution from Wastes and Effluents of Ferrous Metallurgical Plants, Moscow (1968)
Kalyuzhnyi, D. N., Protection of Ambient Air from Pollution by Effluents from Iron and Steel Works, Gasmedizdat, Kiev (1961)
Kozoriz, G. F., The Use of Cyclones in Exhaust Ventilating Installations in Woodworking Plants, Kiev (1968)
Kucheruk, V. V. Dust Removal from Ventilation Air, Masgiz, Moscow (1963)
Kunakov, N. E., Management of Gases in Metallurgical Plants, Metallurgoizdat, Moscow (1954)
Lebedev, V. V., The Prevention of Environmental Pollution by Certain Industrial Effluents, Moscow (1968)
Letavet, A. A., and Huhrinoi, E. V., eds., The Fight Against Dust Formation in Production, Moscow (1964)
Marfenin, F., Handbook of Safety Engineering and Industrial Sanitation, Profizdat, Moscow (1950)
Novikov, N. I., The Problem of the Fight Against Air Pollution from Oil Refineries, Moscow (1966)
Petrov, B. A., and Sidiakov, P. V., Removal of Dust from Technological Gases in Cement Plants, Stroyizdat, Moscow (1965)
Pokrovskii, V. N., ed., Fuel Power and Gas Cleaning, Leningrad Power Institute, Leningrad (1967)
Pozin, M. E., Muhlenov, I. P., and Tarat, E. Ja., Foam Dust Arresters, Gas Purifiers and Heat Exchangers, Goskhimizdat, Moscow (1959)
Remesnikov, I. D. and Skoretski, Yu. A., Dust Control in the Production of Briquettes, Uglethizdat, Moscow (1952)
Rozenknopp, S. P., Removal of Sulfur Dioxide from Gases, Goskhimizdat, Moscow (1952)
Shapritskii, V. N., Air Pollution Control in Metallurgy, Metallurgizdat, Moscow (1965)
Shneerson, B. L., Electrical Purification of Gases, Metallurgizdat, Moscow (1950)
Urbakh, I. I., Methods and Equipment for Dust and Soot Removal from Gases, Processes and Equipment for Chemical Manufacture, Moscow (1965)

APPENDIX C (continued)

Uzhov, V. N., Purification fo Industrial Gases by Electro-filters, 2nd Ed., Khimia, Moscow (1967)

Uzhov, V. N., Safe Operation of Electro-filters in the Chemical Industry, Khimizdat, Moscow (1964)

Uzhov, V. N., Dust Control in Industry, Gaskhimizdat, Moscow (1962)

Uzhov, V. N., Purification of Industrial Effluent Gases, Goskhimizdat, Moscow (1959)

Uzhov, V. N., Sanitary Protection of Atmospheric Air, Medgiz, Moscow (1955)

Vasil'ev, N. S., Air Pollution Control for Power Stations Burning Moscow Coal, Moscow (1965)

Zin'kovskii, M. M., Dust Control in Ferrous Metallurgy, Moscow (1969)

VIII. Control of Automotive Air Pollution

_________________, The Battle with automotive Noise and Exhaust Gases: A Bibliography, No. 1 - 1961-3, Moscow (1964); No. 2 - 1964-6, Moscow (1966)

Lykova, A. S., The Role of Automobile Transport Exhaust Gases in Air Pollution of Large Cities, Trudy 14, Leningrad Sanitary-Hygiene Medical Institute, Leningrad (1953)

Korenev, M. S., Methods for Reducing Toxicity of Motor Vehicle Exhausts, CINTIMAS, Series XII, Moscow (1962)

Soroko-Novitskii, V. I., Testing of Automotive Vehicles, Moscow (1955)

Stepanov, L., The Reduction of Air Pollution from Effluent Gases, Automotive Transport (1963)

Varshavskii, I. L., ed., Toxicity of Internal Combustion Vehicles and Method for Reducing It - Proceedings of a Symposium, Moscow (1966)

Varshavskii, I. L., Zolotorevskii, L. S., and Ignatovich, I. V., Determination of the Effectiveness of Neutralizers from Chemical Analysis Data, Trudy 23, CNITA (1966)

Varshavskii, I. L. and Malov, R. V., How to Make Automobile Exhuast Gases Less Harmful, Moscow (1968)

APPENDIX D

PERIODICALS COVERING AIR POLLUTION TOPICS

A. Periodicals listed in order of the number of articles carried during approximately the last ten years on public health aspects of air pollution:

Journals

1. Hygiene and Sanitation (Gigiena i sanitariia)
2. Laboratory Matters (Laboratornoe delo)
3. The Factory Laboratory (Zavodskaia laboratoriia)
4. Labor Hygiene and Occupational Diseases (Gigiena truda i professional'nye zabolevaniia)
5. Physician's Matters (Vrachebnoe delo)
6. Atomic Energy (Atomnaia energiia)
7. Microbiology (Mikrobiologiia)
8. The Military-Medical Journal (Voenno-meditsinskii zhurnal)
9. The Journal of Microbiology, Epidemiology and Immunology (Zhurnal Mikrobiologiia, Epidemiologii i immunologii)
10. The Chemical Industry (Khimicheskaia promyshelennost')
11. Health (Zdorov'e)
12. The Medical Journal of Uzbekistan (Meditsinskii Zhurnal Uzbekistana)
13. Moscow Municipal Economy (Gorodskoe khoziaistvo Moskvy)
14. The Journal of Analytic Chemistry (Zhurnal analiticheskoi khimii)
15. The Public Health of Kazakhstan (Zdravookhranenie Kazakistana)
16. Medical News (Novosti meditsiny)
17. The Azerbajdzhanian Medical Journal (Azerbajdzhanskii meditsinskii zhurnal)

Other Serial Publications

1. The Voeikov Main Geophysical Observatory Works (Glavnaia goefizicheskaia observatoriia im. Voeikova. Trudy)
2. The Academy of Medical Sciences of the USSR Herald (Akademiia meditsinskikh nauk USSR. Vestnik)
3. The Leningrad Sanitary-hygiene Medical Institute Works (Leningradskii sanitarno-gigienineskii meditsinskii institut. Trudy)

APPENDIX D (continued)

B. Periodicals concerned with air pollution caused by automobile exhaust:

Journals

1. The Automobile Industry (Avtomobil'naia promyshlennost')
2. Automobile Transport (Avtomobil'nyi transport)
3. Rubber and Resins (Kauchuk i rezina)
4. Work Safety and Socialist Insurance (Okhrana truda i sotsialisticheskoe strakhovanie)
5. The Industry of Belorussia (Promyshlennost' Belorussii)
6. Tractors and Agricultural Machinery (Traktory i sel'skomashiny)
7. The mining Journal (Gornyi zhurnal)
8. Behind the Wheel (Za rulem)
9. The Journal of Applied Spectroscopy (Zhurnal prikladnoi spektroskopii)
10. The Municipal Economy of Moscow (Gorodskoe khoziaistvo Moskvy)
11. Oil and Gas (Neft' i gaz)

Other Serial Publications

1. The Central Diesel Research Institute Works (Tsentral'nyi nauchno-issledovatel'skii dizel'nyi institut. Trudy)
2. The Sverdlovsk Institute of Mining Works (Institut gornogo dela g. Sverdlovsk. Trudy)
3. The Automobile Industry Research Institute. Auto Construction (Nauchno-isseledovatel'skii institut informatsii avtomobil'noi promyshlennosti, Seriia "Avtomobilostroenie")
4. The Engine Institute of the Academy of Sciences of the USSR. Works (Institut dvigatelei ANSSR. Trudy)
5. The Institute of Chemical Sciences of Kazakhstan. Works (Institut khimicheskikh nauk Kaz. SSR. Trudy)

C. Other Relevant Journals:

1. Energy (Energitika)
2. Flame (Ogonek)
3. Gas Industry (Gazovaia promyshlennost')
4. Industrial Construction (Promyshlennoe stroitel'stvo)
5. Instruments and Experimental Technique (Pribory i tekhnika eksperimenta)
6. Journal of Analytical Chemistry (Zhurnal Analiticheskai Khimii)
7. Journal of Applied Chemistry (Zhurnal prikladnoi khimii)
8. Journal of Experimental and Clinical Medicine (Zhurnal eksperimental'noi i klinicheskoi meditsinii)
9. Meteorology and Hydrology (Meteorologiia i Gidrologiia)
10. Nature (Priroda)
11. Non-ferrous Metals (Tsvetnye Metally)
12. Pharmacology and Toxicology (Farmakologiia toksikologiia)
13. Problems of Oncology (Voprosy Onkologii)
14. Work (Trud)
15. Work Safety in Industry (Bezopasnost' truda v promyshlennosti)

INTERNATIONAL ORGANIZATIONS

The regional European intergovernmental organizations with significant practical programmes relating to the environment are: the Council of Europe (CE), the Economic Commission for Europe (ECE) and the Organization for Economic Cooperation and Development (OECD). In 1969 the North Atlantic Treaty Organization (NATO) set up a Committee on the Challenges of Modern Society which includes environmental matters in its activities. World-wide organizations are the World Health Organization (WHO) and the World Meteorological Organization (WMO) which are concerned with health and meteorological aspects of environmental pollution. In all these international organizations the air management activities are generally only a part of broader programmes, often directed towards the solution of social or environmental problems.

The General Assembly of the United Nations has approved a proposal to convene a world conference in 1972 on Problems of the Human Environment. It is to be a short publicity conference to focus the attention of Governments and the public on such problems and their solutions.

X.006
X.007

Both the Natural Sciences and the Social Sciences Chapters of UNESCO have environmental pollution projects. Following the recommendations of the 1968 Biosphere Conference, which examined the rational use and conservation of resources of the biosphere on a scientific basis, the Natural Sciences Chapter is preparing a long term inter-governmental and inter-disciplinary programme on such use of the natural environment. The Social Sciences Chapter project, which will provide one of the major themes of UNESCO's future programme, is the launching of a ten year activity entitled "Man and his Environment - Design for Living": in 1970 an inter-disciplinary symposium will review the last fifteen years of man's role in changing his environment.

X.005

The North Atlantic Treaty Organization (NATO), through the new Committee on the Challenges of Modern Society, is now concerned with practical improvements to create a better environment for society. In addition, the North Atlantic Assembly, which is a group of partiamentarians from NATO countries, recommended in 1968 that NATO should publish an annual survey of specific air pollution problems to include technological accomplishments and legal measures, but this does not appear to have been done.

The Economic Commission for Europe is a regional commission of the United Nations. Its mandate embraces economic development and trade, but it differs from OECD in having membership from eastern and western Europe. The ECE is primarily concerned with the problems of trade but it has also developed a pattern of agreed control measures for vehicle emissions as well as beginning a study of the

problems of coordinating construction standards. It has also made
economic studies on the cost and benefit of air pollution control
techniques and on the economic losses resulting from pollution.
The ECE Council has set up a Working Party on Air Pollution to X.013
review trends, developments and government policies, to investigate
air pollution control and amelioration problems, and to promote
information exchanges. Other relevant but more specialised groups
within the Commission include Inland Transport Committee's Working X.011
Party 29 and the Steel Committee's Group of Experts on Air and X.012
Water pollution in the Iron and Steel Industry.

The Council of Europe has a dual role - as an international
forum for parliamentarians and as a promoter of programmes which
(like those for the ECE) are more concerned with administrative
and legal issues. The European Committee for the Conservation of X.001
Nature and Natural Resources aims to secure international conventions
to protect the environment. It is promoting a European Conservation
Conference in 1970. The Council of Europe's Committee of Experts on X.002
Air Pollution examines air pollution issues with a view to drafting
recommendations to governments on standards, international problems,
and national policies.

The Commission of the European Communities which includes the
European Economic Community (EEC) has set up a working party
(Politique de la Recherche Scientifique et Technique - PREST) X.014
to make recommendations for cooperative action, with possible participation by non-EEC countries, in several sectors; one of these is
entitled Nuisances and includes proposals on air pollution from
sulphur compounds, biological indicators for pollutants, and emissions
from motor vehicles and domestic appliances. The 5-year Plan for the
Community's research centres provides for work on pollution problems.

The Organization for Economic Cooperation and Development (OECD)
has a mandate to promote economic development. Its members are
19 'Western' European countries, together with Canada, Japan and
the USA. The OECD Committee for Research Cooperation (CRC) promotes
cooperative research in selected areas, including those in the social
and environmental sectors; its Air Management Research Group identifies research needs for effective air pollution control. A Joint X.004
Group on Air Pollution from Fuel Combustion has just been set up X.003
between the Committee for Research Cooperation, the OECD Energy
Committee and the Special Committee for Oil. During 1970, the OECD
Council is thought likely to establish a new Environment Committee to
take over the environmental work of the CRC, which will then cease to
exist. In recent years, the OECD has dealt decreasingly with the
actual coordination of scientific research and development. It has
concentrated more on the scientific information that governments need
in order to reach policy decisions, and it is increasingly concerned
with the economic implications of environment management, not just
pollution.

On the more technical side, the International Meteorological X.010
Institute at Stockholm has long undertaken the collation of European meteorological and other data with relevance to air pollution: a network of background stations throughout Europe provides the data, published in 'Tellus'. A report describing changes in pH of rainfall over Scandinavia over a period of years was published in 1967.

An international biological programme has been established by
the International Council of Scientific Unions (ICSU) in collaboration X.021
with UNESCO. ICSU has recently set up a Special Committee on Problems of the Environment to examine the environmental aspects of the biological programme in greater detail.

The major oil companies in Western Europe have established a
coordinating group, Stichting CONCAWE, in the Hague to handle information X.022
on environmental problems and to promote studies in members' laboratories and at other research centres. An extensive bibliography is maintained and specialist reports issued from time to time.

An International Union of Air Pollution Prevention Associations X.023
(IUAPPA) was set up in 1964 to link together national clean air societies
throughout the world. Among the six founder members are three
European bodies: the British National Society for Clean Air (NSCA), GB.101
the German Verein Deutscher Ingenieure (VDI) and, the French Association D.021
pour la Prevention de la Pollution Atmospherique (APPA), and the F.051
Japanese Central Association for Heat Management (Kanto Shin-Etsu). JA.214
A first international congress was held in London in 1966; a second
is planned for Washington in 1970.

III. CARDS AND SPECIAL INDEXES

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FORMAT OF CARDS

This section of the report contains a photographic reproduction of a set of index cards for individual air-pollution-related organizations in each of the countries covered by the profile texts. These cards were initially prepared as work-sheets for compiling the background material for the European profile texts, but later proved useful for condensing the information gathered during interviews with the respective organizations. Because the European cards provided more extensive information on specific organizations than the profile texts, similar ones were prepared from information gathered during the visits to Japan and the Soviet Union; the entire set is included in this section. A blank card is shown in Figure 1.

The top line of the card for each organization is coded with edge markings that summarize information given on the rest of the card. The coding key for these entries is given in Tables 3 to 6. The first entry, found in the upper left corner, is the identifying index number described earlier. Next are blocks indicating the type or category of organization (Table 4),its functions (Table 5), and the fields of expertise and knowledge for which it is known (Table 6). Size and status comments are approximations, not always shown (see Table 3). Space was provided for the date of the interview or initial card record for reference in updating the cards. The last two blocks are marked S and T, respectively. A mark in the S block indicates that supplementary information in the form of brochures, special publications or reports is available through the NAPCA Office of Technical Information and Publications. A mark in the T block at the end indicates a reference to the organization in the profile text.

The second line on the card gives the NAME of the organization, both in English and in the original language (or a transliteration thereof). The ACRONYM is frequently left blank. SEE ALSO usually refers to functional relationships, mentioning other cards by index number. In some cases it contains both functional and geographical relationships, with the geographical relationships underlined.

The ADDRESS block also includes the telephone number, if available. AFFILIATION shows both parent and daughter entries, with the corresponding index number. Individual names and functions are given for key PERSONNEL. The first name listed is ordinarily the Director, unless it is known that someone else should be consulted directly on activities in air pollution control.

AP AIMS and ACTIONS outline known functions and areas of work for the organization, when this is not apparent from the title. Bibliographic information is included in the COMMENTS or in some cases on the back of the card. In this draft the back and front appear on the same page. The entry for "Publications" in the cards for Japan provides detailed, coded information based on a special key, taken directly from the 660-page Directory of Japanese Scientific Periodicals - 1967, of the National Diet Library, Tokoyo. This key is explained with an example in Table 7.

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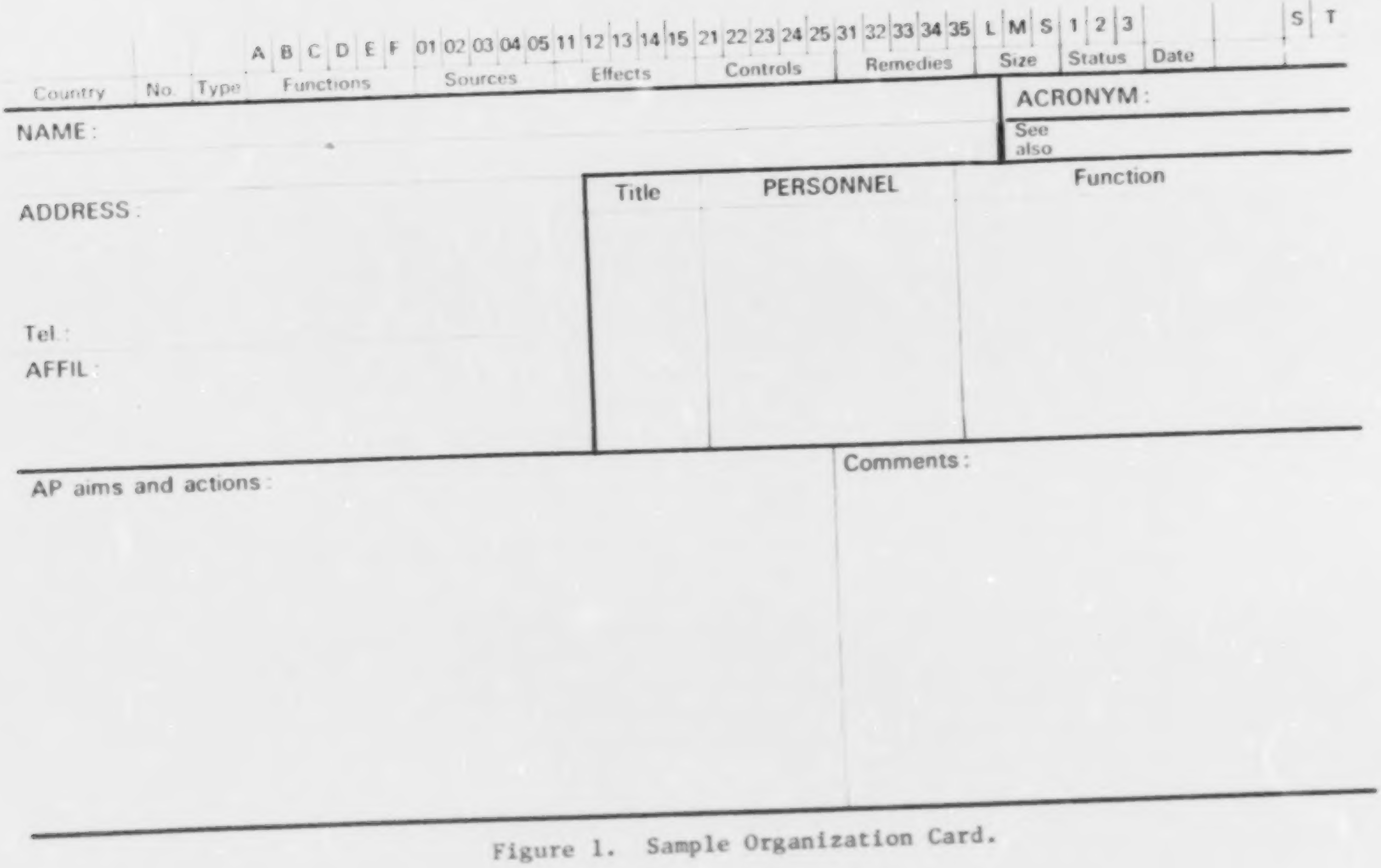

			A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME:

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Figure 1. Sample Organization Card.

The coding system for the top edge markings on the cards is based on multiple entries, and a combination of these in the completed file provides quick access to specific information. It could be used, for example, to indicate lists of government, industrial, or academic organizations in each country that are concerned with stack-gas-cleaning in a chemical process, with effects of atmospheric chemistry on plants and crops, or with the enforcement of regulations concerning vehicles. In some cases, where the information at hand was incomplete, the markings are based on field estimates only. While this key-word type of analysis is very convenient it involves arbitrary definitions, perforce, and these may be ambiguous. The indications it provides are an approximation, therefore, and should be considered in context.

The Cumulative Cross-Index in Section IV, following the cards, gives, for each country, the serial numbers of the cards entered in each category of organizations, using the headings explained in Table 3. A tally of the number of organizations in each country, by categories, is given in Table 8. This gives a convenient indication of the major areas of air pollution control activity in the countries covered by this report.

Table 3: KEY TO CODING ACROSS TOP OF CARDS

CODE	EXPLANATION
COUNTRY	Abbreviated according to international vehicle registration letters; see Table 1.
SERIAL	A series, beginning at 001, for identification purposes only. The same number identifies the organisation in the national profile and in the collection of brochures, leaflets, etc.
TYPE	Classifies the category of the organization (GOVernment, MUNicipal, etc.) according to list in Table 4.
FUNCTIONS	Indicates the type of activity from Table 5. Multiple entries are possible.
EXPERTISE	Four sections: sources, impact, controls, and remedies, identify the expertise and/or main interests of the organization; see Table 6 for details. Multiple entries are possible.
SIZE	Approximate full-time professional staff (individuals or part-time equivalents): L - Large - >5 M - Medium - 3 to 4 S - Small - 1 to 2
STATUS	A subjective assessment of the status or significance of the organisation:- 1 - group of the highest national or regional significance in air pollution activity. 2 - group with wide air pollution interests within a local area, or a national organisation of secondary importance. 3 - group with limited air pollution activity, or one concerned only with special local interests.
DATE	Month and year of collation (or revision) of the information on card.
S	Indicates supplementary information available (on back of card, or as separate brochures, leaflets, etc.).
T	Indicates reference in national profile text.

Table 4: CATEGORIES OF ORGANIZATIONS

CODE	EXPLANATION
GOV	National or regional governmental body whose primary role is to develop and/or enforce regulations; may also monitor pollution, conduct research, advise, or distribute information.
NAT	National organization, possibly set up by government, but largely autonomous; may undertake work on its own behalf or on commission; may also be advisory.
REG	Regional organization (for state, land or province) with limited geographical ambit, otherwise similar to NAT.
MUN	Municipal or communal governmental body with local responsibilities similar to GOV.
ASN	Industrial or professional association or trade group, usually reflecting a special interest.
SOC	Private society, social or civic group, not beholden to government; possibly a pressure group. May be active in research or monitoring, or merely advisory.
IND	Industries and private companies, undertaking applied work in their own field. Includes manufacturers of special equipment.
ACD	University, technical school, or other academic group.
INF	Primarily an information source: libraries, journals, publishers. (Other categories may also act as information sources; see coding "B" under Functions in Table 5).
ONE	Individual consultant, writer, etc., or academician whose institute provides facilities, but not a program.

Table 5: CATEGORIES OF FUNCTIONS OR AIMS

CODE	EXPLANATIONS
A	Basic or applied research (direct, supporting, or program coordination)
B	Information, advice, education, training; not thereby involving practical work
C	Legislation, setting up regulations
D	Surveillance, routine monitoring, specific surveys (involving practical work)
E	Enforcement, application of regulations
F	Private or sectional interest, pressure group

Table 6: FIELDS OF EXPERTISE AND SPECIAL KNOWLEDGE

CODE	EXPLANATION
Sources	Emissions from...
01	Vehicles and prime movers
02	Space and process heating
03	Chemical processes
04	Metallurgical and ceramic processes
05	Noise, radioactivity, miscellaneous
Effects	
11	Hygiene or human health
12	Plant ecology and crops
13	Materials and buildings
14	Amenities and aesthetics
15	National and/or industrial economics
Controls	
21	Development of laws and regulation procedures
22	Instrumentation and monitoring techniques
23	Enforcement, interpretation of pollution data, forensics
24	Ambient air quality measurement, dispersion, meteorology
25	Atmospheric chemistry
Remedies	.. and Abatement
31	Fuel quality
32	Combustion quality control
33	Stack gas cleaning
34	Engineering-process changes
35	Chemical-process changes

Table 7: KEY TO PUBLICATIONS[a] IN JAPAN[b]

Key	Year of first issue	Frequency of publication	Average pages per issue	Size	Price	Language	Contains summary (Language)	Nature of contents
Sample Entry	1959	m	70p	B5	nfs	Jap	Sum(Europ)	A
Identifying Codes		a--Annual bm--Bimonthly bw--Biweekly m--Monthly q--Quarterly sa--Semiannually sm--Semimonthly sw--Semiweekly w--Weekly nospm--Numbers per month nospa--Numbers per annum nospw--Numbers per week irr--Irregular	p--Pages ppv--Pages vary	page width x height (mm.) A4 A5 A6 B4 B5 B6	nfs--Not for sale pv--Price varies mem--Membership fee 210 x 297 148 x 210 105 x 148 257 x 364 182 x 357 128 x 182	Jap--Japanese Europ--European	Non--Summaries not given Sum--Summaries given	A--Original papers B_1--Review commentary B_2--News C--Abstracts D--Data

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[a] To avoid redundancy on the index cards, publications identified by English titles such as Bulletin, Journal, or Report, do not repeat the name of the publishing organization. This is usually given in full as part of the title in Japanese, for example, "Bulletin of the (name of the organization listed as publisher)".

[b] According to coded information supplied in the Directory of Japanese Scientific Periodicals - 1967, National Diet Library, Tokyo, 660 pp.

Table 8: TALLY OF ORGANIZATIONS BY COUNTRY AND CATEGORY[a]

Category[b] / Country	GOV	NAT	REG	MUN	ASN	SOC	IND	ACD	INF	ONE	TOTAL
Austria	3	7	2	4	3		5	14			38
Belgium	9	5		2	7	4	1	4		1	33
Denmark	2	3			6		1	2	2	1	17
France	7	8	2	1	19		10	18			65
Germany[a]	6	10	16		45	6	4	37			124
Great Britain	6	18	11		16	10	27	37	3	2	130
Italy	3	8	6	6	7	3	5	17	1	2	58
Japan	37	14	80	34	33	34	11	73	6 (+48)[c]		322 (370)[d]
Netherlands	7	5			3	3	6	1			25
Norway	7	4			4	1	1	1		2	20
Sweden	6	5			8		2	9			30
Switzerland	4	6	4	2	3	1	4	2			26
U.S.S.R.	23		39	5	1		50	76	6 (+24)[c]		200 (224)[d]
International	14		1		4						19
											1107 (1179)[d]

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[a] Preliminary report, subject to change.

[b] See Table 4 for definition of categories.

[c] Publishing houses; see lists in text (USSR) and cards (Japan).

[d] Total including publishing houses.

AUSTRIA - A

A 001 GOV A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 4.70 S 1
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BUNDESMINISTERIUM FÜR SOZIALE VERWALTUNG
Federal Ministry for Social Affairs.

ACRONYM:
See also

ADDRESS: 1010 WIEN
Stubenring 1.

Tel: (02.22) 57.56.55
AFFIL:

Title	PERSONNEL	Function
Dr.Med.	F. Bauhofer	director
Dr.	J. Daimer	director of Public Health Dept.*
Dr.	P. Vychytil	
	Approx. 7 P/NP	

AP aims and actions:
Maintains awareness of effects of AP on public health.
Comments on proposed legislation from health aspect.

Comments:
* Sektion V: Volksgesundheit.

A.001 Bundesministerium für Soziale Verwaltung 4.70

A 002 GOV A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 4.70 S 1
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BUNDESMINISTERIUM FÜR HANDEL, GEWERBE UND INDUSTRIE
Federal Ministry for Commerce, Trade and Industry.

ACRONYM:
See also A.004

ADDRESS: 1010 WIEN.
Stubenring 1.

Tel: (02.22) 57.56.55
AFFIL:

Title	PERSONNEL	Function
Min.Rat.	Haselberger	*
Ing.	Storek	**

AP aims and actions:
Responsible for vehicle emissions regulations.
Maintains close liaison with ECE developments on emission controls for vehicles.

Comments:
* Dept. 17: Liaisons with International Organizations
** Dept. 20: Traffic and Vehicle matters.
Practical measurements by Bundesprüfungsanstalt für Kraftfahrzeuge (A.004).

A.002 Bundesministerium für Handel, Gewerbe und Industrie 4.70

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A [redacted] 003 ACD A B C D E F [illegible] [redacted]

Country	No.	Type	Functions	Sources	Effects	Controls	Remarks	Size	Status	Date

NAME: KOMMISSION REINHALTUNG DER LUFT

Clean Air Committee

ACRONYM

See also: see below

ADDRESS: 1010 WIEN
Universitätsplatz.

Tel.:

AFFIL.: Akademie der Wissenschaften
(Academy of Sciences)

Title	PERSONNEL	Function
Prof.Dr.	G. Stetter	chairman *
Prof.Dr.	F. Steinhauser	(A.009)
Prof.Dr.	H. Reuter	(A.0[illegible])
Prof.Dr.	L. Flamm	(A.0[illegible])
Prof.Dr.	O. Preining	(A.058)
Prof.Dr.	J. Schedling	(A.051)
Prof.Dr.	G. Wagner	(A.0[illegible]) consultant

AP aims and actions:

Consideration of all aspects of air pollution.

Comments

Ad hoc group of experts without official standing (see [illegible]).
* Prof. Stetter is Professor Emeritus of the 1st Physics Institute (A.058).

A.003 Kommission Reinhaltung der Luft [illegible]

A [redacted] 00A GOV A B C D E F [illegible] [redacted]

Country	No.	Type	Functions	Sources	Effects	Controls	Remarks	Size	Status	Date

NAME: BUNDESPRÜFUNGSANSTALT FÜR KRAFTFAHRZEUGE

Federal Vehicle Testing Station

ACRONYM

See also: A.007

ADDRESS: 1090 WIEN,
Michelbeuerngasse 8.

Tel.: (02.22) 42.15.61

AFFIL.:

Title	PERSONNEL	Function

AP aims and actions:

Undertakes studies and measurements of vehicle emissions (esp. at request of Bundesmin. für Handel &c - A.007).

Comments

A.00A Bundesprüfungsanstalt für Kraftfahrzeuge [illegible]

A [redacted]	005	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	4.70	[redacted]	S	/
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: ZENTRALANSTALT FÜR METEOROLOGIE UND GEODYNAMIK

Central Meteorological and Seismological Establishment

ACRONYM:

See also

ADDRESS: 1190 WIEN,
Hohe Warte 38.

Tel.: (02.22) 36.12.85

AFFIL: Universität Wien

Title	PERSONNEL	Function
Prof.Dr.	F. Steinhauser	director
Dr.	J. Drimmel *	section head for AP
Ing.	K. Chalupa	
	Total: 3 on AP +	Students

AP aims and actions:

Measurements of ambient SO_2 CO_2 O_3 and particulates in Vienna (particulates in all major Austrian areas).
Studies of the dispersion of pollutants.
For Vienna district, undertakes commissioned baseline air quality surveys and prepares stack height calculations for new installations.

Comments:

* member of German VDI Kommission Reinhalting der Luft (D.021).

A.005 Zentralanstalt für Meteorologie und Geodynamik 4.70

A [redacted]	006	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	4.70	[redacted]	S	/
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: BUNDESSTAATLICHE BAKTERIOL/SEROL. UTERSUCHUNGSANSTALT

Nat. Inst. for Bacteriological and Serological Research

ACRONYM: BBSUA-Wien

See also A.007 A.051

ADDRESS: 1090 WIEN,
Währingerstrasse 25a.

Tel.: (02.22) 43.25.04

AFFIL: Bundesmin. f. Soz. Verwaltung
(Fed. Min. for Social Affairs)

Title	PERSONNEL	Function
Dr	F. Pötsch	director
Fr.Dr.	R. Baumann *	physicist
Dr	F. Seemann	biologist
Dip.Ing.	E. Kadan	
Prof.Dr.	J. Schedling *	scientific adviser (A.051)

AP aims and actions:

Techniques of measurement of various pollutants in environment.
Measurments of SO_2 CO, smoke, dust, Pb and 3:4-bzp. in Vienna.
Calibration of registered SO_2 monitors.

Comments:

* Members of Committee of AP Experts (A.003).
Total: 3P + assistants on AP.
Have small mobile laboratory.
Results published in "Ö. Sanitätsverwaltung" (See A.009).

A.006 Bundesstaatliche Bakteriol/Serol. Untersuchungsanstalt - Wien 4.70

A	[redacted] 007		~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	4.70	[redacted]	S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: BUNDESSTAATLICHE BAKTERIOL/SEROL. UNTERSUCHUNGSANSTALT
Nat. Inst. for Bacteriological and Serological Research

ACRONYM: BBSUA-Linz
See also A.006

ADDRESS: 4020 LINZ/Donau,
Rudoffstrasse 16.

Tel.: (072.22) 22-082
AFFIL:

Title	PERSONNEL	Function
Dr.	K. Megay	director
Dr.	J. Frenzel	

AP aims and actions:

Measurements of SO_2 SO_3 in Linz.

Comments:

A.007 Bundesstaatliche Bakteriol/Serol. Untersuchungsanstalt - Linz 4.70

A	[redacted] 008	NAT	~~A~~ B C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	4.70	[redacted]	S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: BUNDESANSTALT FÜR PFLANZENSCHUTZ
Federal Establishment for Plant Protection

ACRONYM:
See also

ADDRESS: 1020 WIEN
Trunnerstrasse 5.

Tel.: (02.22) 24.15.11
AFFIL: Landwirtschaftsdepartement
(Min. of Agriculture)

Title	PERSONNEL	Function
Dip.Ing.	E. Kahl	

AP aims and actions:

Measurements of SO_2 and dust, and their effects on plant ecology.

Comments:

A.008 Bundesanstalt für Pflanzenschutz 4.70

A 010 NAT A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 4.70 S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BUNDESVERSUCHS- u FORSCHUNGSANSTALT, Grundlageninstitut

Fed. Testing and Research Establishment, Basic Research Inst

ACRONYM: BVFA

See also

ADDRESS: 1030 WIEN,
Arsenal.

Tel.: (02.22) 65.36.66

AFFIL: Bundesmin. f. Bauten und Technik

Title	PERSONNEL	Function
Prof Dr	E. Schroll	director
Dr.	J. Mairhofer	
Ing.	H. Krachsberger	

AP aims and actions:

Measurements of SO_2 H_2S organic compounds and trace elements in air and in dust.

Research into removal of SO_x from flue gases.

Comments:

A.010 Bundesversuchs- u Forschungsanstalt, Grundlageninstitut 4.70

A 009 NAT A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 4.70 S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: FORSTLICHE BUNDESVERSUCHSANSTALT MARIABRUNN

Federal Forestry Research Establishment at Mariabrunn

ACRONYM:

See also

ADDRESS: 1130 WIEN,
Schönbrunn,
Oberer Tirolergarten.

Tel.: (02.22) 82.36.38

AFFIL: Landwirtschaftsdepartement (Min. of Agriculture).

Title	PERSONNEL	Function
Dipl.Ing.	J. Egger	director
Dr.	E. Donaubauer *	
Dr.	J. Wencl	
Dipl.Ing.	K. Stefan	
Dipl.Ing.	F. Fink	

AP aims and actions:

Measurements and effects of various AP (SO_2 HF magnesite dust) on forest trees, esp. conifers.

Studies of noise from chain saws.

Publishes: "Mitteilungen der Österreichische Sanitäts-verwaltung."

Comments:

* representative on International Union of Forestry Research Organisations, Smoke Damage WG.

A.009 Forstliche Bundesversuchsanstalt Mariabrunn 4.70

A [redacted]	011	NAT	~~A~~ ~~B~~ C D E F	01 02 03 04 ~~05~~	11 12 13 ~~14~~ 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 ~~34~~ 35	~~L~~ M S	~~1~~ 2 3	4.70	[redacted] ~~S~~ ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ÖSTERREICHISCHER ARBEITSRING FÜR LÄRMBEKÄMPFUNG

Austrian Noise Control Working Group

ACRONYM: ÖAL

See also

ADDRESS: 1012 WIEN,
Stubenring 1.

Tel.: (02.22) 42.73.31

AFFIL: Ministerium für Soziale
Verwalting.
(Min. of Social Affairs)

Title	PERSONNEL	Function
Prof.Dr.	F. Bruckmayer	chairman
	+ 50 members of wide representation	

AP aims and actions:

Studies and recommendations for the control of all types of noise.

Comments:

Holds regular conferences and issues 'Nachrichten' (reports) in conjunction with the Ö. Versuchsenstalt für Wärmetechnik (A. Research Estab. for Heating Technol.).

A.011 Österreichischer Arbeitsring für Lärmbekämpfung 4.70

A [redacted]	021	REG	A B ~~C~~ ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 ~~23~~ ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: AMT DER NIEDERÖSTERREICHISCHEN LANDESREGIERUNG *

Regional Government of Lower Austria

ACRONYM:

See also

ADDRESS: 1014 WIEN,
Herrengasse 11

Tel.: (02.22) 63.57 11

AFFIL:

Title	PERSONNEL	Function
Dr.D'Ing	A. Bürkner	director
Dipl.Ing	J. Knoflach	
Ing.	F. Heimer	
Ing.	H. Kager	

AP aims and actions:

Measurements of dust, smoke, particulate sizes, SO_2 cresols, etc. as required by local industrial regulations.

Comments:

* Baudirektion, Technisches Sicherheitswesen (Building Directorate, Technical Safety).

A.021 Amt der Niederösterreichischen Landesregierung 4.70

A [redacted]	022	REG	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 ~~23~~ ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: CHEMISCHE VERSUCHSANSTALT DES LANDES VORARLBERG
Vorarlberg Regional Chemistry Research Establishment

ACRONYM:

See also

ADDRESS: 6901 BREGENZ,
Montfortstrasse 4.

Tel.: (055.74) 23841

AFFIL:

Title	PERSONNEL	Function
Dr.	K. Sausgruber	director
Dr.	H. Grimm	
Dr.	A. Illigen	

AP aims and actions:

Measurements of SO_2 and dust.

Comments:

A.022 Chemische Versuchsanstalt des Landes Vorarlberg 4.70

A [redacted]	023	MUN	A B C ~~D~~ E F	01 02 03 04 ~~05~~	~~11~~ 12 13 14 15	21 22 ~~23~~ ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: MAGISTRAT LINZ, Gesundheitsamt
Linz Municipality, Health Dept.

ACRONYM:

See also

ADDRESS: 4020 LINZ/Donau,
Sonnensteinstrasse 1.

Tel.: (072.22) 36.241

AFFIL:

Title	PERSONNEL	Function
Dr.	J. Frenzel	programme director
Dr.	E. Weiss	
	H. Gutternigg	
	G. Luger	

AP aims and actions:

Measurements of ambient AP (SO_2 NO_2 CO smoke, dust, and solvent vapours) in relation to meteorological conditions.

Comments:

A.023 Magistrat Linz, Gesundheitsamt 4.70

A	[redacted]	024	MUN	A B C ~~D~~ E F	01 02 03 04 ~~05~~	~~11~~ 12 13 14 15	21 22 ~~23~~ ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: MAGISTRAT KLAGENFURT, Gesundheitsamt
Klagenfurt Municipality, Health Dept.

ACRONYM:

See also

ADDRESS: 9010 KLAGENFURT
Bahnhofstrasse 35.

Tel.: (042.22) 72.531

AFFIL:

Title	PERSONNEL	Function
Dr.	J. Brandl	Medical Officer
Prof.	H. Janach	

AP aims and actions:

Measurements of SO_2 CO CO_2 and solvent vapours.

Comments:

A.024 Magistrat Klagenfurt, Gesundheitsamt 4.70

A	[redacted]	025	MUN	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: MAGISTRAT WIEN, Gesundheitsamt.
Vienna Municipality, Health Dept.

ACRONYM:

See also

ADDRESS: 1010 WIEN,
Gonzagagasse 23.

Tel.: (02.22) 63.97.11

AFFIL:

Title	PERSONNEL	Function
Dr.	A. Krassnigg	Health Officer
Dr.	P. Lorant	specialist for AP

AP aims and actions:

Simultaneous measurements of street CO and of COHb in exposed persons.

Comments:

A.025 Magistrat Wien, Gesundheitsamt 4.70

A [redacted]	026	MUN	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: MAGISTRAT WIEN, Baudirektion Referat VII
Vienna Municipality, Building Directorate Area VII

ACRONYM:

See also

ADDRESS: 1190 WIEN,
Gatterburggasse 14

Tel.: (02.22) 36.42.50

AFFIL:

Title	PERSONNEL	Function
Dipl.Ing	G. Sterniste	

AP aims and actions:

Measurements of SO_2 around new heating plants; some smoke measurements.

Comments:

Cooperates with U. Wien (Prof. Schedling-A.041) and B'staatl. Bakt/Ser-anstalt (A.006).
Has mobile lab.
Plans more extensive network for Vienna.

A.026 Magistrat Wien, Bandirektion Referat VII 4.70

A [redacted]	030	TND	A ~~B~~ C ~~D~~ E F	~~01~~ 02 03 04 05	11 12 13 14 15	~~21~~ 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted]	S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: ÖSTERREICHISCHE MINERALÖL-VERWALTUNG AG
Austrian Petroleum Association

ACRONYM: ÖMV

See also

ADDRESS: 1090 WIEN.
Otto Wagner Platz 5.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Grünwald	

AP aims and actions:

Advice on gasoline quality aspects of AP.

Comments:

Well-equipped with automotive driving cycle test facilities.

A.030 ÖMV - Österreichische Mineralöl-Verwaltung AG 4.70

A	[redacted]	031	TND	A B C ~~D~~ E ~~F~~	01 ~~02~~ ~~03~~ 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 ~~32~~ ~~33~~ 34 ~~35~~	L M ~~S~~	1 2 ~~3~~	4.70	[redacted] S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ÖSTERREICHISCHE STICKSTOFFWERKE AG

Austrian Nitrogen Works

ACRONYM:

See also

ADDRESS: 4020 LINZ/Donau,
St. Peter 224.

Tel.: (072.22) 56.471

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	W. Leithe *	director of lab.

AP aims and actions:

Measurement of industrial pollutants (NH_3 CO O_3 smoke) and of urban AP (SO_2 HF NO_x).

Comments:

* Member of European Federation of Chemical Engineering and of Centre Européen des Fédérations de l'Industrie Chimique.

A.031 Österreichische Stickstoffwerke AG 4.70

A	[redacted]	032	TND	A B C ~~D~~ E ~~F~~	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted] S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: VEREINIGTE METALLWERKE RANSHOFEN-BERNDORF AG

United Metal Works, Ranshofen--Berndorf. Inc.

ACRONYM:

See also

ADDRESS: 5282 BRAUNAU-RANSHOFEN

Tel.: (077.22) 2341

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	E. Nachtigall	director
Dr.Ing.	H. Breit	asst. director
Prof.Dr.	J. Nepp	
Dr. Med.	O. Hesse	

AP aims and actions:

Measurement of inorganic fluorides around works, for conformity with Labour Inspectorate requirements.

Comments:

A.032 Vereinigte Metallwerke Ranshofen- Berndorf AG 4.70

A [redacted]	033	TND	A B C D/ E F/	01 02 03 04/ 05	11 12 13 14 15	21 22 23 24 25	31 32 33/ 34/ 35	L M S/	1 2 3/	4.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: VEREINIGTE ÖSTERR. EISEN- u. STAHLWERKE AG
United Austrian Iron and Steel Works Inc.

ACRONYM: VOEST
See also

ADDRESS: 4020 LINZ/Donau,
Muldenstrasse 5.

Tel.: (072.22) 57.411
AFFIL.:

Title	PERSONNEL	Function
Dipl.Ing.	K. Rieder	director
	U. Schröder	

AP aims and actions:
Measurements and studies of abatement procedures for emissions from iron and steel production processes.

Comments:

A.033 Vereinigte Österr. Eisen- u. Stahlwerke AG (VOEST) 4.70

A [redacted]	034	TND	A B C D/ E F/	01 02 03/ 04 05	11 12 13 14 15	21 22 23 24/ 25	31 32 33 34 35/	L M S/	1 2 3/	4.70	[redacted]	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: CHEMIEFASER LENZING AG
Lenzing Synthetic Fibre Co.

ACRONYM:
See also

ADDRESS: 4860 LENZING

Tel.: (076.22) 2531
AFFIL.:

Title	PERSONNEL	Function
Ing.	F. Bretbacher	Energy Dept.

AP aims and actions:
Monitoring concentrations of industrial gases (smoke, SO_2 H_2S CS_2) around plant.

Comments:

A.034 Chemiefaser Lenzing AG 4.70

A	[redacted]	041	ASN	A B C ~~D~~ E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: TECHNISCHER ÜBERWACHUNGS-VEREIN WIEN
Technical Supervision Association of Vienna

ACRONYM:

See also

ADDRESS: 1010 WIEN,
Krugerstrasse 16.

Tel.: (02.22) 52.16.07

AFFIL:

Title	PERSONNEL	Function
Dipl.Ing.	H. Giebner	director
Dipl.Ing.	Warmuth	
Dipl.Ing.	W. Stegerwald	

AP aims and actions:

Measurements of emission of smoke, particulates, SO_2, SO_3 and of ambient SO_2.

Comments:

Compare with similar German TÜV (eg. D.404).

A.041 Technischer Überwachungs-Verein Wien 4.70

A	[redacted]	042	ASN	~~A~~ ~~B~~ C D E F	01 02 03 04 ~~05~~	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	4.70	[redacted]	S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: ÖSTERREICHISCHE STAUB(SILIKOSE)-BEKÄMPFUNGSTELLE
Austrian Dust (Silicosis) Campaign Centre

ACRONYM: ÖSBS

See also

ADDRESS: 8700 LEOBEN
Einödmayergasse 12.

Tel.: (038.42) 21.55

AFFIL: Ö. Unfallverhütungsdienst
(A. Accident Prevention Service).

Title	PERSONNEL	Function
Dipl.Ing.	B. Fischer *	director Tech. Dept.
Dipl.Ing.	L. Hofer	
Dipl.Ing.	E. Bigga	
Ing.	M. Szongott	

AP aims and actions:

Measurement and composition of dust in industrial locations (esp tunnelling and mining); studies of effects on health.

Comments:

* Member of European Iron and Steel Community's Technical Group on Dust Control.

A.042 Österreichische Staub(Silikose)-Bekämpfungstelle (ÖSBS) 4.70

A [redacted]	043	ASN	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	4.70	[redacted] S /
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ZENTRUM FÜR ELEKTRONENMIKROSKOPIE
Centre for Electron Microscopy

ACRONYM:
See also

ADDRESS: 8010 GRAZ
Steyrergasse 17.

Tel.: (031.22) 75.363

AFFIL.: Univ. Graz

Title	PERSONNEL	Function
Dr.	F. Grasenick	director
Dr.	W. Geymayer *	
	C. Pock	

AP aims and actions:

Application of electron microscopy to the analysis of solid and liquid aerosols (if necessary after freezing).

Development of portable equipment for calibrating automatic SO_2 monitors.

Comments:

Undertakes work on commission. Cooperates with BBSUA-Wien (A.006).

* Member of DECD Air Management Research Group (X.005).

A.043 Zentrum für Elektronenmikroskopie 4.70

4.70

A [redacted]	051	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	4.70	[redacted] S /
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: U. WIEN, Institut für Medizinische Physik
U. Vienna, Institute of Medical Physics.

ACRONYM:
See also

ADDRESS: 1090 WIEN,
Währingerstrasse 13.

Tel.: (02.22) 42.62.20

AFFIL.:

Title	PERSONNEL	Function
Prof.Dr.	J. Schedling *	director
Dr.	J. Waniek	
Dr.	W. Resch	
Dr.	H. Hauck	
Dr.	W. Seiller	
	+ students and workshop	

AP aims and actions:

Measurements, evaluation and effects of urban concentrations of CO SO_2 smoke, particulates, Pb, and other trace metals, Bzp, etc.

Development of coni-centrifuge for particulates analysis, and use of fine-grain X-ray and differential thermal analysis.

Comments:

* Member of OECD AMRG (X.005) and of Austrian AP Commission (see A.003).

A.051 U. Wien, Institut für Medizinische Physik 4.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
A [redacted]	052	ACD	~~A~~ ~~B~~ C D E F	~~01~~ 02 03 04 ~~05~~	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	4.70	[redacted]	S ~~T~~

NAME: U. WIEN, Institut für Hygiene
U. Vienna, Institute of Hygiene

ACRONYM:

See also

ADDRESS: 1095 WIEN,
Kinderspitalgasse 15.

Tel.: (02.22) 43.15.95

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	H. Flamm	director
Prof.Dr.	M. Haider	envtl. hygiene and psychology.
Fr.	E. Groll-Knapp	
	G. Arbeiter	
	H. Wagner	

AP aims and actions:

Measurements of CO and NO_x from vehicles.
Evaluation of psychological response to noise in terms of threshold shift and sensitisation.
Planning studies of effects of CO on evoked brain potentials.

Comments:

A.052 U. Wien, Institut für Hygiene 4.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
A [redacted]	053	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	4.70	[redacted]	S T

NAME: U. WIEN, Institut für Gerichtliche Medizin
U. Vienna, Institute of Forensic Medicine

ACRONYM:

See also

ADDRESS: 1090 WIEN,
Sensengasse 2.

Tel.: (02.22) 42.62.78

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	G. Machata	

AP aims and actions:

Measurements of ambient pollutants (CO CO_2 Pb Zn Mn aromatics) using sensitive analytical methods (x-ray fluorescence, polarography, etc.)
Correlations with concentrations of these pollutants in biological material.

Comments:

A.053 U. Wien, Institut für Gerichtliche Medizin 4.70

A | 054 | ACD | ~~A~~ B C D E F | 01 02 03 04 05 | 11 12 13 14 15 | 21 ~~22~~ 23 ~~24~~ 25 | 31 32 33 34 35 | ~~L~~ M S | ~~1~~ 2 3 | 4.70 | S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: U. WIEN, I. Physikalisches Institut
U. Vienna, 1st. Institute of Physics

ACRONYM:

See also

ADDRESS: 1090 WIEN,
Strudelhofgasse 4.

Tel.: (02.22) 34.73.28

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	O. Preining	director
Dr.	A. Berner	
Dr.	V. Berner	
Dr.	H. Horvath	
Dr.	H. Reichelt	
Prof.Dr.	E. Reeger	
Dr.	P. Sellner	

AP aims and actions:

Measurements of CO CO_2 NO_x HC smoke and particulates and developments of suitable techniques.

Comments:

A.054 U. Wien, I. Physikalisches Institut 4.70

A | 055 | ACD | ~~A~~ B C D E F | 01 02 03 04 05 | ~~11~~ 12 13 14 15 | 21 ~~22~~ 23 24 25 | 31 32 33 34 35 | L M ~~S~~ | 1/2 3 | 4.70 | S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: U. WIEN, Organisch-Chemisches Institut
U. Vienna, Organic Chemistry Institute

ACRONYM:

See also

ADDRESS: 1090 WIEN
Währingerstrasse 38.

Tel.: (02.22) 34.46.30

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	M. Pailer	programme director
Prof Dr	Derkosch	

AP aims and actions:

Investigation with aid of spectroscopy of carcinogenic substances in air, dust and tobacco smoke.

Comments:

A.055 U. Wien, Organisch-Chemisches Institut 4.70

A	[redacted]	056	ACD	[✓ A] B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	4.70	[redacted]	S /
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U. WIEN, Lehrkanzel für Theoretische Meteorologie
U. Vienna, School of Theoretical Meteorology

ACRONYM:

See also

ADDRESS: 1090 WIEN,
Boltzmanngasse 5.

Tel.: (02.22) 34.72.46

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	H. Reuter *	director

AP aims and actions:

Use of dispersion theory for development of VDI Richtlinie 2289 on Stack Heights

Comments:

* Member of German VDI Kommission Reinhaltung der Luft (D.021)

A.056 U. Wien, Lehrkanzel für Theoretische Meteorologie 4.70

A	[redacted]	057	ACD	[✓ A] B C D E F	[✓ 01] 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 [✓ 24] 25	31 [✓ 32] 33 34 35	L [✓ M] S	1 [✓ 2] 3	4.70	[redacted]	S /
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: TH WIEN, Inst. f Verbrennungskraftmaschinen etc.
TH Vienna, Inst. for Internal Combustion Engines

ACRONYM:

See also

ADDRESS: 1060 WIEN,
Getreidemarkt 9

Tel.: (02.22) 57.16.51

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	R. Eberan-Eberhorst	director
Dipl.Ing	M. Estermann	
Dipl.Ing	H. Lippitsch	
Dipl.Ing	F. Indra	
Dipl.Ing	G. Schwarzbauer	
Dipl.Ing	P. Grassnigg	

AP aims and actions:

Studies of vehicle exhaust emissions (CO, HC, NO_x) and their reduction through improvements for greater engine efficiency.
Development of simple methods of measurements of AP.

Comments:

A.057 TH Wien, Inst. f Verbrennungskraftmaschinen etc. 4.70

A [redacted] 058 ACD ~~A~~ B C D E F 01 ~~02~~ 03 04 05 11 12 13 14 15 21 22 23 24 25 ~~31~~ ~~32~~ ~~33~~ 34 35 L M ~~S~~ 1 ~~2~~ 3 4.70 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: TH WIEN, Inst. f. Brennstoffe, Feuerungsanlagen u.Gastechnik

TH Vienna, Inst. of Fuels, Furnaces and Gas Technology *

ACRONYM:

See also

ADDRESS: 1060 WIEN,
Getreidemarkt 9.

Tel.: (02.22) 57.16.51

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	A. F. Orlicek	director
Dipl.Ing	H. Brötzenberger	

AP aims and actions:

Measurement of smoke in emissions and in ambient air around industrial furnaces.

Comments:

* Successor to: Inst. für Verfahrenstechnik und Technologie der Brennstoffe

A.058 TH. Wien, Inst.f.Brennstoffe Feuerungsanlagen u. Gastechik 4.70

A [redacted] 059 ACD ~~A~~ B C D E F 01 02 03 04 05 11 12 13 14 15 21 ~~22~~ 23 ~~24~~ ~~25~~ 31 32 33 34 35 L M ~~S~~ 1 ~~2~~ 3 4.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: TH WIEN, Inst. für Analytische Chemie...

TH Vienna, Inst. of Analytical Chemistry...

ACRONYM:

See also

ADDRESS: 1060 WIEN,
Getreidemarkt 9.

Tel.: (02.22) 57.16.51

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	H. Malissa	director
Prof.Dr.	G. Wagner *	for AP
Dipl.Ing.	W. Jütte	

AP aims and actions:

Survey techniques and measurements of ambient AP (SO_2 CO_2 CO Pb, toxic industrial gases).
Microstructure of dusts.
Comparison of different measurement techniques.
Studies of atmospheric changes in AP.

Comments:

* Member of Austrian AP Commission (see A.003) and of APCA.

A.059 TH Wien, Inst. für Analytische Chemie... 4.70

A	[redacted]	060	ACD	~~A~~ B C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	4.70	[redacted] S /
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: H'S FÜR BODENKULTUR, Botanisches Institut

College of Agriculture, Botanical Institute

ACRONYM:

See also A.009

ADDRESS: 1180 WIEN,
Gregor Mendelstr, 33.

Tel.: (02.22) 34.25.00

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	J. Kisser *	director
Dr.	G. Halbwachs *	
Dr.	H. Richter	

AP aims and actions:

Studies of the effects of AP (dust, fluorides) on forestry and agriculture. (inc. growth in air chambers).

Development of pollution-resistant species.

Comments:

* Members of German VDI Kommission Reinhaltung der Luft (D.021).

Has published "Forstliche Rauchschäden in Österreich" (1966) (in 'Mitteilungen' of the Forstl. Bundes-anstalt Mariabrunn - A.009).

A.060 H'S für Bodenkultur, Botanisches Institut 4.70

A	[redacted]	061	ACD	~~A~~ B C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	[redacted] S /
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: U. GRAZ. Inst. für Anatomie und Physiologie der Pflanzen

U. Graz. Inst. of Plant Anatomy and Physiology

ACRONYM:

See also

ADDRESS: 8010 GRAZ,
Schubertstrasse 51.

Tel.: (031.22) 31.581

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	O. Härtel	director

AP aims and actions:

Measurements of SO_2 and their effects on plants (cell physiology).

Comments:

A.061 U. Graz, Inst. für Anatomie und Physiologie der Pflanzen 4.70

A	062	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	4.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: U. GRAZ, Institut für Hygiene

U. Graz, Institute of Hygiene

ACRONYM:

See also

ADDRESS: 8010 GRAZ,
Universitätsplatz 4.

Tel.: (031.22) 31.581

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	J. R. Möse	director
Dr. Mr.	H. Brantner	
Dr.	G. Fischer	

AP aims and actions:

Use of wide variety of analytical techniques for measuring SO_2 HF smoke Pb organic compounds and bacteria in air.

Comments:

A.062 U. Graz, Institut für Hygiene 4.70

A	063	ACD	~~A~~ B C D E F	01 02 03 04 ~~05~~	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	4.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: U. INNSBRUCK, Inst. für Hygiene u. Mikrobiologie.

U. Innsbruck, Inst. of Hygiene and Microbiology

ACRONYM:

See also

ADDRESS: 6020 INNSBRUCK,
Schöpfstrasse 41.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof. Dr.	A. Schinzel	director

AP aims and actions:

Some measurements of ambient radioactivity.

Comments:

Mostly WP.

AP.063 U. Innsbruck, Inst. für Hygiene u. Mikrobiologie 4.70

BELGIUM - B

B	[redacted]	001	GOV	A	~~B~~	C	D	E	F	01	02	03	04	05	~~11~~	12	13	14	15	~~21~~	22	23	24	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	8.69	[redacted]	~~S~~	/
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: CONSEIL SUPÉRIEURE DE L'HYGIÈNE PUBLIQUE

Supreme Council for Public Hygiene

ACRONYM:

See also B.002 B.003

ADDRESS: 1116 chaussée de Gand,
Berchem-Sainte-Agathe,
BRUSSELS

Tel.:

AFFIL: Min. of Public Health

Title	PERSONNEL	Function
Dr.	Halter	Secretary
+35-45	appointed members	(see Guide des Ministères, p554).

AP aims and actions:

Has Special Section to advise Min. Pub. Health on nature and form of AP control measures (within wider framework of all matters concerning public health).

Comments:

Central consultative body for AP in B, with effective veto powers.

Members, all civil servants (fonctionnaires), appointed as med/hyg specialists; some active, some observers.

B.001 Conseil Supérieure de l'Hygiène Publique 8.69

B	[redacted]	002	GOV	A	B	~~C~~	D	E	F	01	02	03	04	05	11	12	13	14	15	~~21~~	22	23	24	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	8.69	[redacted]	S	/
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: COMM'N INTERMINISTÉRIELLE DE COORD'N EN MATIÈRES DE P. DE L'A*

Interministerial Commission for Coordinating AP Matters

ACRONYM:

See also B.003

ADDRESS: Cité Administrative de l'État,
Quartier Vésale,
Montagne de l'Oratoire,
BRUSSELS

Tel.:

AFFIL: Min. of Public Health

Title	PERSONNEL	Function
Dr.	Halter	President
+ representatives of all ministries concerned with polluting or purifying the atmosphere.		

AP aims and actions:

Development of control measures and regulations (for approval by Supreme Council for Public Hygiene (B.001) and enactment through Min. of Public Health).

Comments:

* Commission Interministérielle de Coordination en Matières de Pollution de l'Air.

Principal decision-taking body in AP matters.

B.002 Commission Interministérielle de Coord'n en Matières de P. de l'A 8.69

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B [redacted]	003	GOV	A B C ~~D~~ ~~E~~ F	01 02 ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	8.69	[redacted] S ~~1~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: MINISTÉRIE DE LA SANTÉ PUBLIQUE

Ministry of Public Health

ACRONYM:

See also B.001 B.002 B.004

ADDRESS 43 Avenue des Arts,
BRUSSELS 4

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Halter	chief secretary
Mr.	de Baenst	legal adviser
Dr.	A. de Wever	inspector general

AP aims and actions:

Responsible for control of AP.

Obtains and comments on information about AP levels in classified zones (ie. domestic and commercial areas; industrial pollution is concern of Min. of Labour B.004 — at least for time being).

Coordinates all opinions concerning AP.

Responsible for formulating and enacting all AP control measures.

Comments:

B.003 Ministérie de la Santé Publique 8.69

B [redacted]	004	GOV	A B ~~C~~ ~~D~~ ~~E~~ F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 ~~15~~	~~21~~ 22 ~~23~~ 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	8.69	[redacted] S ~~1~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ADMINISTRATION DE LA SÉCURITÉ DU TRAVAIL

Work Safety Administration

ACRONYM:

See also B.003

ADDRESS: 53 rue de la Loi,
BRUSSELS 4.

Tel.:

AFFIL: Min. de l'Emploi et du Travail. (Min. of Labour)

Title	PERSONNEL	Function

AP aims and actions:

Undertakes surveys of AP in and around industrial premises, and proposes controls.

Establishes the classification of industries, and determines operating conditions for the small and medium-sized industries (though former usually delegated to Provinces or Municipalities).

Comments:

B.004 Administration de la Securité du Travail 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
B [redacted]	005	GOV	A B ~~C~~ D E F	01 02 03 04 05	11 12 13 14 15	~~21~~ 22 23 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	8.69	[redacted]	S ~~1~~

NAME: INSPECTION DU TRAVAIL : ARBEIDS INSPECTIE

Labour Inspectorate

ACRONYM:

See also B.004

ADDRESS: 53 rue de la Loi,
BRUSSELS 4.

Tel.:

AFFIL: Min. of Labour

Title	PERSONNEL	Function
	W. Zualaert	chief inspector

AP aims and actions:

Inspection of industrial premises for conformity with conditions of licence (main concern is industrial safety).

Comments:

Mr. Zualaert is official contact for US PHS/HEW.

In Province of Liège, Corps des Mines undertakes role of Labour Inspectorate.

B.005 Inspection du Travail : Arbeids Inspectorate 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
B [redacted]	006	NAT	~~A~~ B C ~~D~~ E F	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 ~~22~~ ~~23~~ 24 25	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	8.69	[redacted]	S ~~1~~

NAME: INSTITUT D'HYG. ET D'EPIDÉMIOLOGIE, Dept. de l'Environment

Inst. of Hygiene and Epidemiology, Environmental Studies Dept

ACRONYM:

See also B.003 B.007

ADDRESS: 14 rue Juliette Wytsman,
BRUSSELS 5.

Tel.:

AFFIL: Min. of Public Health

Title	PERSONNEL	Function
Dr.	R. Lafontaine	dir. gen. of Institute
Dr.	J. Boucquiaux	dept. hd. (for AP etc)
Mr.	Verduy	lab. hd.
Total other	of 7 (3P) concerned with AP, some with responsibilities.	

AP aims and actions:

Studies of AP in B (smoke, radioactive materials, pesticides, etc.)

Coordination of surveys and interpretations of data obtained by Approved Labs (in conjunction with Inst. Roy. Met. B.007 who do computer analysis).

Comments:

Surveys began Jan 68.

B.006 Institut d'Hyg. et d'Epidémiologie, Dept. de l'Environment 8.69

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
B [redacted]	007	NAT	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 [✓ 23] [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	8.69	[redacted] [✓ S] /

NAME: INSTITUT ROYAL METEOROLOGIQUE DE BELGIQUE
Royal Belgian Meteorological Institute

ACRONYM: I R M
See also B.006

ADDRESS: Avenue Circulaire 3,
Uccle,
BRUSSELS 18

Tel.:

AFFIL: Min. of National Education and Culture.

Title	PERSONNEL	Function
Dr.	J. Grandjean	director
Mr.	Legrand	

AP aims and actions:
Measurements of radioactive materials in the air.
Computation of AP survey data obtained by Inst. of Hyg. and the Approved Labs (because IRM have suitable computer).
Publishes the survey data in Bulletin Mensuel/Maandbericht (Monthly Bulletin).

Comments:

B.007 Institut Royal Météorologique de Belgique 8.69

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
B [redacted]	008	NAT	A B C D [✓ E] F	01 02 [✓ 03] [✓ 04] 05	11 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	L [✓ M] S	[✓ 1] 2 3	8.69	[redacted] S /

NAME: INSTITUT NATIONAL DES INDUSTRIES EXTRACTIVES
National Institute of Extractive Industries

ACRONYM: I N I E X
See also B.009 B.010

ADDRESS: rue Chera,
LIÈGE

Tel.:

AFFIL: Min. of Economic Affairs

Title	PERSONNEL	Function
	Ledent	director
Ir.	G. Nenquin	dep. director

AP aims and actions:
By delegation from Min. of Economic Affairs, controls the licensing and conditions of operation (inc. AP) of the largest and most dangerous industries (i.e. Class III - mines, smelting, petroleum refining, etc).

Comments:
INIEX combines the roles of the previous Inst. Nat. des Mines, Paturages, and Inst. Nat. de l' Industrie Charbonnière (but Inst. voor Mijnhygiene at Hasselt is still separate -- see B.010)
Active only in southern Belgium.

B.008 Institut National des Industries Extractives (INIEX) 8.69

B [redacted]	009	GOV	A	B	C	~~D~~	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	~~L~~	~~M~~	~~S~~	~~1~~	~~2~~	~~3~~	8.69	[redacted]	S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: INSTITUT NATIONAL DES MINES

National Mining Institute

ACRONYM:

See also B.008 B.010

ADDRESS: PÂTURAGES

Tel.:

AFFIL:

Title	PERSONNEL	Function
	G. Fally	
	C. Henaut	
	G. Nenquin	

AP aims and actions:

Study of industrial pollution.

Comments:

Now absorbed in INIEX (B.008).

B.009 Institut National Des Mines 8.69

B [redacted]	010	GOV	A	B	C	~~D~~	E	F	01	02	03	04	05	11	12	13	14	15	21	22	~~23~~	24	25	31	32	33	34	35	L	M	~~S~~	~~1~~	2	3		[redacted]	S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: INSTITUT VOOR MIJNHYGIENE

Mine Safety Institute

ACRONYM:

See also B.008

ADDRESS: Havermarkt,
Limbourg,
HASSELT.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	A. Houberechts	director
Prof.Dr.	van Mechelen	
Ing.	Degueldre	

AP aims and actions:

Research into dust pollution, ventilation and air conditioning.

Medical effects of dust pollution.

Comments:

This Institute remains separate - other mining institutes absorbed in INIEX (B.008).

B.010 Institut voor Mijnhygiene 8.69

B	[redacted]	011	NAT	[✓ A] B C [✓ D] E F	01 02 [✓ 03] 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	8.69	[redacted] S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: CENTRE D'ÉTUDE DE L'ÉNERGIE NUCLÉAIRE
Nuclear Energy Research Centre

ACRONYM:
See also

ADDRESS: 31 rue Belliard,
BRUSSELS.

Tel :
AFFIL :

Title	PERSONNEL	Function
	Boulenger	director

AP aims and actions:

Monitoring of radioactivity on suspended and deposited particulates at Moll, Brasschaat, Florennes, Kleine Brogel, Schaffen and Vilvoorde.

Comments:

B.011 Centre d'Étude de l'Énergie Nucléaire 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
B [redacted]	012	ASN	[✓ A] [✓ B] C D E F	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 34 35	L [✓ M] S	[✓ 1] 2 3	8.69	[redacted]	S [✓ 7]

NAME:	FONDS D'ÉTUDES ET DE RECHERCHES DE LA SÉCURITÉ ROUTIÈRE	**ACRONYM:**	
	Road Safety Research Foundation	**See also**	

ADDRESS: 14 rue de Gouvernement Provisoire,
BRUSSELS 1.

Tel.:

AFFIL: Min. of Communications (indirectly)

Title	PERSONNEL	Function
Dr.	E.J. Coucke	director

AP aims and actions:

Research into causes and remedies of vehicle pollution in the context of road safety, in order to be able to advise Min. Communications and the veh. testing co's.
Organises international road safety documentation centre.
Publishes Q'ly: "Technical Aspects of Road Safety" with articles in Fr. Du. Eng. Ger., with summaries.

Comments:

Financed by Min. Comm'ns and vehicle testing co's.

B.012 Fonds d'Études et de Recherches de la Securité Routière 8.69 ×

B.012 Fonds d'Études et de Recherches de la Sécurité Routière 8.69

Membership of Council

President	Monsieur Vrebos Secretaire General au Ministère des Communications
Vice-President	Monsieur Cornelis
Administrateur-Delegue	Monsieur Verlinden
Administrateur-Secretaire	Monsieur Nicholas
Administrateurs	Monsieur de Cracker Monsieur De Wolf Monsieur M. Van Damme
Directeur	Monsieur De Coster

B [redacted]	013	GOV	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	8.69 [redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: LABORATOIRE INTERCOMMUNAL DE CHIMIE ET DE BACTÉRIOLOGIE

Intercommunal Chemistry and Bacteriology Laboratory

ACRONYM:

See also

ADDRESS: 3 rue de Maelbeck,
BRUSSELS 4.

Tel.:

AFFIL:

Title	PERSONNEL	Function
	J. Kufferath	director

AP aims and actions:

Measurement of AP in Brussels area.

Comments:

B.013 Laboratoire Intercommunal de Chimie et de Bactériologie 8.69

B [redacted]	014	GOV	A ~~B~~ C ~~D~~ ~~E~~ F	01 02 03 04 05	~~11~~ ~~12~~ ~~13~~ ~~14~~ 15	21 22 ~~23~~ 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	8.69 [redacted] S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: CENTRUM TEGEN LUCHT EN WATER VERONDREINIGING

Centre Against Air and Water Pollution

ACRONYM:

See also B.017

ADDRESS: Stadslaboratorium,
Schilderstraat 41,
ANTWERP.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	A. Clement	secretary-director
Prof.	Heyndrickx	consultant toxicologies
	Herman	" "

AP aims and actions:

Advice and coordination of operating conditions for operating licences (limits on emissions, stack heights etc.) to limit pollution at source.

Surveillance of pollutant levels (smoke, SO_2 etc.) around plant; coordination with Arbeidsinspectie regarding emissions.

Investigation of specific AP problems and incidents.

Service to handle complaints.

Comments:

Set up early 1969.

Several objectives yet to be implemented.

Two labs: AP handled for all of Antwerp Province by Stadslaboratorium/Antwerp (Municipal Lab.) while Provincial Inst. or Hygiene handles all WP problems.

B.014 Centrum tegen Lucht en Water Verondreiniging 8.69

B	[redacted]	016	ACD	~~A~~	~~B~~	C	~~D~~	E	F	01	02	03	04	05	11	12	~~13~~	~~14~~	15	21	22	~~23~~	24	25	31	32	33	34	35	L	~~M~~	S	1	~~2~~	3	8.69	[redacted]	S	~~7~~
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: RIJKSUNIVERSITEIT-GENT, Lab. voor Anorg.Technische Chemie etc.
Ghent State University, Lab. for Inorg. Technical Chem., etc

ACRONYM:

See also

ADDRESS: Josef Plateaustraat 22,
GHENT.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	F.M. Bosch	director
Ir.	A.R. van Cauwenberghe	lecturer
Ir.	S. van Wichelen	assistant

AP aims and actions:

Sampling and analysis of dust, smoke, SO_2 and radioactive materials for public or private surveys by commission.

Daily smoke/SO_2 measurement at Univ. since 1964.

Comments:

Started AP surveys in 1956.

Much of work for town planning.

Cooperates closely with BECELU/CEBEDAIR (B.023, B.024).

B.016 Rijksuniversiteit-Gent, Lab. voor Anorg. Chemie, Etc. 8.69

B	[redacted]	017	ACD	~~A~~	~~B~~	C	D	E	F	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	~~S~~	1	~~2~~	3	8.69	[redacted]	S	~~7~~
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: RIJKSUNIVERSITEIT-GENT, Lab. voor Toxicologische Scheikunde
Ghent State Univ., Lab. for Toxicological Chemistry

ACRONYM:

See also B.014 B.020

ADDRESS Rozier 6,
GHENT

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	A. Heyndrickx	director

AP aims and actions:

Determination of carcinogens in air and gases.

Comments:

Prof. Heyndrickx is consultant on toxicology to Antwerp AP Centre (B.014).

Compare with Dr. Rondia at Liège (B.020).

B.017 Rijksuniversiteit-Gent, Lab. voor Toxicologische Scheikunde 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
B [redacted]	018	ONE	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 ~~13~~ 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	8.69	[redacted] ~~1~~ /

NAME: Prof. A. HACQUAERT

ACRONYM:

See also B.024

ADDRESS: Geologische Instituut,
Rijksuniversitiet-Gent,
Rozier 6,
GHENT.

Tel.:

AFFIL:

Title	PERSONNEL	Function
assisted by:		
Mr.	van den Bossel	) for BECELU work (B.024)
+ technician + analyst		)

AP aims and actions:

Studies of effects of AP on urban corrosion and deterioration (monuments, paint, etc.)
Town planning in relation to AP.
Edits "Natuurwetenschappelijk Tijdschrift
(BF250;8 per Y; same address).
Director of BECELU (B.024).

Comments:

B.018 Prof. A. Hacquaert 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
B [redacted]	020	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	8.69	[redacted] ~~1~~ /

NAME: UNIV. DE L'ÉTAT À LIÈGE, Lab. de Chimie Médical et de Toxicol.
Liège State Univ., Lab. of Medical Chemistry & Toxicology

ACRONYM:

See also B.017

ADDRESS 1, rue des Bonnes Villes,
LIÈGE

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	C. Heusghem	director
Dr.	D. Rondia	head of Dept. of Biochem.
+ technicians for AP.		

AP aims and actions:

Until 1963, surveys of polynuclear aromatics in ambient air (10 sta's, 2/week, 5 yrs) for correlation with urban health factors.
Studies of biochemistry of PNA's.

Comments:

Compare with work of Heyndrickx at Ghent (B.017)

B.020 Univ. de l'État à Liège, Lab. de Chimie Médical et de Toxicologie 8.69

B [redacted] 022 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 8.69 [redacted] 6 7
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: KATHOLIEKE UNIVERSITEIT TE LEUVEN, Lab. voor Indust. Chimie
Louvain Catholic Universities, Lab. for Industrial Chemistry

ACRONYM:

See also

ADDRESS: de Croylaan 2,
Heverlee,
LOUVAIN

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.	A. van Haute	director

AP aims and actions:
Studies of atmospheric pollutants.
Courses in basic a and WP matters.

Comments:

B.022 Katholieke Universiteit te Leuven, Lab. voor Indust. Chimie 8.69

B [redacted] 023 SOC A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 8.69 [redacted] 7
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CENTRE BELGE D'ÉTUDE ET DE DOCUMENTATION DE L'AIR
Belgian Centre for Air Research & Documentation

ACRONYM: CÉBÉDAIR

See also B.024 B.035

ADDRESS: 77 rue du Val Benoît,
LIÈGE.

Tel:

AFFIL: Section of CÉBÉDEAU

Title	PERSONNEL	Function
Prof.	Edmond Leclerc	director
	E. van Caillie	asst.
	Deswaef	asst.
	+ staff of 4-5 p	

AP aims and actions:
Investigations of emissions from industrial processes (smelting, metallurgy, coal, coke, etc. especially in Liege area). Practical work by Univs. (of Liege, Ghent, Louvain, etc).
Technical assistance with abatement problems.
Publishes "La Tribune de CÉBÉDEAU" (monthly by Édition CÉBÉDOC: ed Prof. Leclerc, Dir. & Sec. H. Goldstein 3 Bd. Frère Orban, Liège - (04-52.01.80).

Comments:
One of the Approved Labs.
Supported by grants from IRSIA (B.035) Min. Pub. Hlth., and from commissioned work from Ministries, Institutes (eg of Town Planning), or industries. Some reports are confidential. Can take initiative.
Budget approx. FB 5m/Y (labs rent-free).

B.023 Centre Belge d'Étude et de Documentation de l'Air 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
B [redacted]	024	SOC	A ~~B~~ C ~~D~~ E F	01 ~~02~~ ~~03~~ 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 ~~32~~ ~~33~~ 34 35	L M ~~S~~	1 ~~2~~ 3	8.69	[redacted]	S ~~T~~

NAME: BELGIEN CENTRUM VAN DER LUCHT

Belgian Centre for Air Research

ACRONYM: BECELU

See also B.023 B.018

ADDRESS: Rozier 6,
GHENT

Tel.:

AFFIL: CEBEDAIR (B.023)

Title	PERSONNEL	Function
Prof.	Armand Hacquaert	director

AP aims and actions:

Study of atmospheric pollutants (dust, smoke, SO_2) and investigation of industrial AP problems - especially in Flanders.

Comments:

BECELU is recent expansion of CEBEDAIR (B.023) into Flemish part of B.

B.024 Belgien Centrum van der Lucht 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
B [redacted]	025	ASN	A ~~B~~ C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	8.69	[redacted]	S T

NAME: CENTRE D'ÉTUDES DES COMBUSTIBLES LIQUIDES

Study Group for Liquid Fuels

ACRONYM: CÉDICOL

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function
	J. Bolle	general director

AP aims and actions:

Information centre regarding use of liquid petroleum products.

Comments:

B.025 Centre d'Études des Combustibles Liquides 8.69

B [redacted]	027	IND	[✓ A] B C D E [✓ F]	01 [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	L [✓ M] S	1 2 [✓ 3]	8.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ATELIERS DE CONSTRUCTION ELECTRIQUE, CHARLEROI

Electrical Construction Works

ACRONYM: A C E C

See also

ADDRESS Avenue Émile Rousseau,
CHARLEROI - Marcinelle.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	P.E. Dubois	director of Study Group for Particulates Removal.

AP aims and actions:

Studies of equipment and techniques for flue gas cleaning particularly for power plant.

Comments:

Incentive is own equipment sales.

B.027 Ateliers de Construction Électrique, Charleroi 8.69

B [redacted]	029	ASN	A [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	8.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ASS'N DES INDUSTRIELS POUR LA PROT'N DE L'AIR ET DE L'E. *

Industrialists' Association for Air and Water Conservation

ACRONYM:

See also

ADDRESS: 4 rue Ravenstein.
BRUSSELS.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	H. Bodson	Secretary-director (from Fed. of Belgian Ind.)

AP aims and actions:

Defence of industrial interests through information exchange.

Comments:

* Association des Industriels pour la Protection de l'Air et de l'Eau.

No practical work.
Mostly water problems hitherto, but expect to be more involved with air problems when new controls enacted.

B.029 Association des Industriels pour la Protection de l'Air et de l'E 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
B [redacted]	030	ASN	A ~~B~~ C D E ~~F~~	01 ~~02~~ 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	8.69	[redacted]	S	/

NAME: GROUP'T DES IND'S DE LA SAMBRE CONTRE LA POLL. DE L'A ET DE L'E

A & W Conservation Gp. of Industrialists in the Sambre Valley

ACRONYM: GISPE

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	Massinon	secretary-director

AP aims and actions:

Comments:

* Groupement des Industrials de la Sambre contre la Pollution de l'Air et de l'Eau

Mainly metallurgical and coal interests.

B.030 Group't des Ind's de la Sambre contre la Poll. de l'A et de l'E 8.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
B [redacted]	031	ASN	A ~~B~~ C D E ~~F~~	01 ~~02~~ 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	8.69	[redacted]	S	/

NAME: GROUP'T DES IND'S DE LA MEUSE CONTRE LA POLL'N DE L'A ET DE L'E

A & W Conservation Gp. of Industrialists in the Meuse Valley

ACRONYM: GIMPE

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	Ubaghs	Secretary-director

AP aims and actions:

Comments:

Groupement des Industrials de la Meuse contre la Pollution de l'Air et de l'Eau.

Mainly metallurgical and coal interests.

B.031 Group't des Ind's de la Meuse contre la Poll'n de l'A et de l'E 8.69

B [redacted]	032	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: FÉDÉRATION PÉTROLIÈRE BELGE
Belgian Petroleum Federation

ACRONYM: F P B
See also

ADDRESS: 4 rue de la Science,
BRUSSELS 4.

Tel.:

AFFIL: Fédération des Industries Belges.

Title	PERSONNEL	Function
Prof.	Paul Hatry	director
Mr.	J.R. Botte	chmn of AP cttee.
+	representatives of most	oil co's operating in B.

AP aims and actions:

AP cttee is responsible for representing AP opinions of petroleum industry to various official groups - eg. Min. of Public Health.

Comments:

Prof. Hatry is at Free Univ. of Brussels. Faculty of Economic Science.

B.032 Fédération Pétrolière Belge 8.69

B [redacted]	033	30C	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	8.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: CONSEIL NATIONAL CONTRE LA POLLUTION DE L'AIR ET LE BRUIT
National Council against Air Pollution and Noise

ACRONYM:
See also

ADDRESS: 6, Place des Martyrs,
BRUSSELS

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	J. Delcroix	director

AP aims and actions:

Pressure group to urge control of all forms of AP.

Comments:

Now defunct.

B.033 Conseil National contre la Pollution de l'Air et le Bruit 8.69

B [redacted] 034 ASN A ~~B~~ C D E ~~F~~ 01 ~~02~~ 03 04 05 11 12 13 14 15 21 22 23 24 25 ~~31~~ ~~32~~ 33 34 35 L M ~~S~~ 1 2 ~~3~~ 8.69 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

ACRONYM:

See also

NAME:

Belgian Petroleum Institute*

ADDRESS: Wetenschapstraat 4
BRUSSELS

Tel.:

AFFIL.:

Title	PERSONNEL	Function

AP aims and actions:

Has AP cttee: "Commissie tegen Luchtbezoedeling" to collect technical information on AP as it affects the oil industry.

Organises conferences.

Comments:

*Former name: Societe Belge pour l'Étude du Pétrole (Belgisch Studiegenootschap voor Aardolie)

B.034 Belgian Petroleum Institute 8.69

B [redacted] 035 NAT ~~A~~ B C D E F 01 02 03 04 05 11 12 13 14 ~~15~~ 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 8.69 [redacted] S ~~T~~

Country No Type Functions Sources Effects Controls Remedies Size Status Date

ACRONYM: IRSIA

See also B.008 B.023

NAME: INSTITUT POUR L'ENCOURAGEMENT DE LA RECH. SCI. ETC.*

Inst. for the Encouragement of Sci. Res. in Industry & Agric.

ADDRESS:

Tel.:

AFFIL.:

Title	PERSONNEL	Function

AP aims and actions:

Coordinates needs of individual industries in commissioning research work by other organisations (e.g. CÉBÉDEAU/CÉBÉDAIR, B.023).

Comments:

*Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et l'Agriculture.

B.035 Inst. pour l'Encouragement de la Rech. Sci. .... (IRSIA) 8.69

B	[redacted]	036	MUN	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	8.69	[redacted] S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: LE LABORATOIRE INTERCOMMUNAL DE CHIMIE, Charleroi

Municipal Chemistry Laboratory of Charleroi

ACRONYM:

See also

ADDRESS: Place de l'Abbatoir,
CHARLEROI

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:
One of the Approved Labs.

B.036 Le Laboratoire Intercommunal de Chimie, Charleroi. 8.69

B	[redacted]	037	MUN	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	8.69	[redacted] S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: HET STADSLABORATORIUM VAN GENT

Ghent Municipal Laboratory

ACRONYM:

See also

ADDRESS: Baudelookaai 1,
GHENT.

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:
One of the Approved Labs.

B.037 Het Stadslaboratorium van Gent 8.69

B [redacted]	038	SOC	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	8.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: L'ASSOCIATION VINÇOTTE
The Vinçotte Association

ACRONYM:

See also

ADDRESS: 91, rue du Commerce,
BRUSSELS

Tel:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:
One of the Approved Labs.
Main activity is inspection of industrial equipment and pressure vessels.

B.038 L'Association Vinçotte 8.69

DENMARK - DK

DK [redacted]	001	GOV	A	B	~~C~~	D	E	F	01	02	03	04	05	11	12	13	14	15	~~21~~	22	23	24	25	31	32	33	34	35	L	~~M~~	S	~~1~~	2	3	9.69	[redacted]	S	~~1~~
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: FORURENINGSRÅD

Pollution Board

ACRONYM:

See also DK.002

ADDRESS: 1218 KØBENHAVEN K.
Christiansborg Slotsplads 1,

Tel.: (01). 11.69.00

AFFIL: Min. of the Interior
(Indenrigsministeriet)

Title	PERSONNEL	Function
Chairmn	K.O.Møller	Sheriff of county of Hjørring.
Vice-ch	H.O. Christiansen	Section head, Min. of Commerce
	V. Rud Nielsen	Section head, Min. of Housing.
	N.V.C. Wermuth	Section Head, Min of Agriculture.

AP aims and actions:

To determine what powers for conservation lie in the existing legislation.
To make immediate conservation proposals.
To propose a permanent administrative organisation for conservation.
To report back by March 1970.

Comments:

Set up in September 1969.
Wide freedom of action.
The Board draws advice from a Committee of 12 technical experts (DK.002).

DK.001 Forureningsråd 9.69

DK	002	GOV	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	1 M S	1 2 3	2.70	S 1
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: DET TEKNISKE FORURENINGSUDVALG
The Technical Pollution Committee

ACRONYM:

See also DK.001

ADDRESS: 1057 KØBENHAVN K.
Holbergsgade 14

Tel: (01).11.28.88

AFFIL: Min. of the Interior
(Indenrigsministeriet)

Title	PERSONNEL	Function
	(See over)	

AP aims and actions:
To advise the Forureningsråd (DK.001) on all technical aspects of pollution.

Comments:

DK.002 Det Tekniske Forureningsudvalg 2.70

DK 002 Det Tekniske Forureningsudvalg 2.70

Amtmand K. O. Møller, Formand
Professor, dr.med. G.J. Bonde
Professor, dr. med.vet. S. Dalgaard-Mikkelsen
Dr. techn. Knud Hansen
Civilingeniør P. Harremoes
Professor, dr. techn. F. Ingerslev
Konsulent J. Graff Nielsen
Professor, dr. phil. Hans Pauly
Overlaege, dr. med. E. Uhl
Stud. scient. T. E. Halias
Direktør C.G. Wolffbrandt
Dyrlaege A. Haugaard Hansen

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
DK [redacted]	003	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	1 M S	1 2 3	9.69	[redacted] 9 1

NAME: RØGUDVALGET 62
Smoke Committee 1962

ACRONYM:

See also DK.006 DK.007

ADDRESS: KØBENHAVN
Sankt Peders Vej 8
2900 Hellerup

Tel.: HE (01) 9211

AFFIL: A T V (DK.006)

Title	PERSONNEL	Function
Dr.Tech	A. K. Bak	Chairman
Ing.	Poul Behnk	Secretary

(See over for full membership)

AP aims and actions:

Is AP committee for ATV (DK.006); collates all available AP information; keeps up to date with technical developments.

Planned the 1965-7 5-towns AP survey (practical work by Dansk Kedelforening, DK.007), and reported results.

Comments:

Cooperates closely with Kedelforening (DK.007)(same address).

DK.003 Røgudvalget 62 9.69

DK.003 Røgudvalget 62 9.69

Chairman	A. K. Bak	dr. techn.
	A. H. M. Andreasen	professor, dr. techn.
	P. Bonnevie	professor, dr. med.
	E. Bramslev	driftsbestyrer, dr. techn.
	Byrge Carlsen	direktør, civilingeniør.
	E. K. Gabrielsen	professor, dr. phil.
	Knud Hansen	dr. techn.
	Steffen Holmblad	direktør, civilingeniør
	N. Hostrup-Pedersen	underdirektør, civilingeniør
	K. Erik Jensen	professor, dr. techn.
	Jørgen Lauridsen	civilingeniør
	P. Gregers Petersen	overingeniør, cand. polyt.
	Per Søltoft	professor, dr. techn.
	H. Weldingh	direktør, civilingeniør.
	H. Claudi Westh	underdirektør, civilingeniør
Secretary	Poul Behnk	afdelingsingeniør, cand. polyt.

as at 1 June 1968

DK [redacted] 004 NAT A ~~B~~ C D ~~E~~ F 01 02 03 04 05 ~~11~~ 12 13 14 15 21 22 ~~23~~ 24 25 31 32 33 34 35 L M ~~S~~ 1 ~~2~~ 3 9.69 [redacted] S ~~T~~

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ARBEJDSHYGIEJNISK INSTITUT

Institute for Occupational Hygiene

ACRONYM:

See also DK.005 DK.015

ADDRESS: KØBENHAVN
Baunegaardsvej 73
2900 Hellerup

Tel.: GE (01) 9868

AFFIL.: Arbejdstilsynet
(Labour Inspectorate)
G. Drachmann, director.

Title	PERSONNEL	Function
Prof.dr	P. Bonnevie	consultant for AP

AP aims and actions:
Principally concerned with matters of occupational hygiene within factories.

Comments:

DK. Arbejdshygiejnisk Institut 9.69

DK [redacted] 005 ACD ~~A~~ ~~B~~ C D E F 01 02 03 04 05 ~~11~~ 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 ~~2~~ 3 9.69 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: AARHUS UNIVERSITET, HYGIEJNISK INSTITUT

University of Aarhus, Hygiene Institute

ACRONYM:

See also DK.004

ADDRESS: AARHUS

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Prof.	G. Jensen Bonde	director
Dr.med.	P. Helms	section leader

AP aims and actions:
Specialise on indoor air quality, but also study A and WP.

Comments:

DK.005 Aarhus Universitet, Hygiejnisk Institut 9.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
DK [redacted]	006	NAT	A [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	[✓ 1] 2 3	9.69	[redacted] [✓ 1] [✓ 1]

NAME: AKADEMIET FOR DE TEKNISKE VIDENSKABER

Academy of Technical Sciences

ACRONYM: A T V

See also DK.003, DK.014

ADDRESS
1316 KØBENHAVN K
Rigensgade 11,

Tel: (01) 12.18.22

AFFIL:

Title	PERSONNEL	Function
Direktør	F. Hermann	president

AP aims and actions:

National information centre on AP (inter alia).
Has technical committee for AP (DK.003).
Published (1949) first survey of AP in Denmark (work by Andreasen of Danmarks Tekniske Højskole - DK.014)

Comments:

ATV covers 21 autonomous institutions involved in a wide range of research.
The Røgudvalg 62 (DK.003) is one of 14 committees.

DK.006 Akademiet For De Tekniske Videnskaber 9.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
DK [redacted]	007	ASN	A [✓ B] C D E F	01 [✓ 02] [✓ 03] [✓ 04] 05	11 12 13 14 [✓ 15]	21 [✓ 22] 23 [✓ 24] 25	31 32 [✓ 33] [✓ 34] 35	[✓ L] M S	[✓ 1] 2 3	9.69	[redacted] [✓ 1] [✓ 1]

NAME: DANSK KEDELFORENING

Danish Boiler Owners Association

ACRONYM: DKF

See also DK.003

ADDRESS:
KØBENHAVN
Sankt Peders Vej, 8
2900 Hellerup

Tel: HE (01) 9211

AFFIL:

Title	PERSONNEL	Function
Dr.Tech	Knud Hansen	director
Ing.	Leif Hansen	i/c AP laboratory
M'mester	F. E. Pedersen	i/c AP measurements
+ assistance of aggregate 7.		

AP aims and actions:

Undertakes surveys of plant-equipment efficiency and of ambient pollution at plant; fixed and mobile stations (much own instrumentation).
Did 1965-7 urban survey for ATV's Røgudvalg 62 (DK.003); some measurements continue.
Income from Danmarks Teknisk Videnskabelige Forskningsråd (D. Tech. Science Res. Admin.) for work of national interest, and from commissioned work (not necessarily from members of the Assn'n).

Comments:

Established 1918; test department 1951.
Responsibility for national AP work may be taken over by new set-up following report of new Cttee (DK.001).

DK.007 Dansk Kedelforening 9.69

DK	[redacted] 008	ASN	A Ø C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	✗ M S	1 ✗ 3	2.70	[redacted] S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: DANMARKS TEKNISK-VIDENSKABELIGE FORSKNINGSRÅD
Danish Technical-Scientific Research Council

ACRONYM:

See also

ADDRESS: 2970 HØRSHOLM
Hørsholm Kongevej 2,

Tel

AFFIL

Title	PERSONNEL	Function
	(members of WG listed over)	

AP aims and actions:

Has Arbejdsgruppe Vedrørende Forurening (Working Group for Pollution) to consolidate available information on AP.

Comments:

DK.008 Danmarks Teknisk-videnskabelige Forskningsråd 2.70

DK.008 Danmarks Teknisk-videnskabelige Forskningsråd 2.70

Members of Working Group for Pollution

E. Steemann Nielsen	professor, dr. phil.
T. Vincents Nissen	mag. art.
Jens Jensen-Holm	afdell., lektor, dr. med.
Erik A. Uhl	overlaege, dr. med.
Sv. Dalgaard-Mikkelsen	professor, dr. med. vetr.
A. Dam Kofoed	forstander
Bent Rald Andersen	forskningsleder, cand. polit.
Niels-Henrik Hansen	direktør, civilingeniør
Per Søltoft	professor, dr. techn.

DK [redacted]	009	ASN	A B̸ C D E F̸	01 02 03 04 05	11 12 13 14 15̸	21 22 23 24 25	31 32 33 34 35	L̸ M S	1 2̸ 3	2.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: INDUSTRIRÅDET

Industry Association

ACRONYM:

See also

ADDRESS: 1553 KØBENHAVN K.
H. C. Andersens Bvd 18

Tel.:

AFFIL:

Title	PERSONNEL	Function
Direktør	P. Skjoldborg	chairman
Civ.Ing	Fl. Clausen	) Secretaries
Cand.Jur	Johs Reeckmann	)

(members of AP Cttee listed over)

AP aims and actions:
Has Luftforureningsudvalg (AP Cttee) to coordinate available information on AP matters.

Comments:

DK.009 Industrirådet 2.70

DK.009 Industrirådet 2.70

Members of AP committee

Direktør Poul Skjoldborg	chairman
Overingeniør V. Bryndum	
Fabriksbestyrer Jørgen Haals	
Direktør F. E. Johannesen	
Overingeniør N. P. Langkilde	
Afdelingsleder, cand. agro. P. Gregers Petersen	
Overingeniør Jens Riisbro,	
Civilingeniør Fl. Egtoft Knudsen	

DK [redacted]	010	ASN	A ~~B~~ C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 ~~2~~ 3	9.69	[redacted]	~~S~~	~~I~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: DANSKE ELVAERKERS FORENING

Danish Power Plants Association

ACRONYM:

See also

ADDRESS: KØBENHAVN V.
Vodroffs Vej 59,
1900

Tel.: (01) 39.01.11

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

To consolidate information and opinions on AP for members

Comments:

AP committee set up in 1959.

DK.010 Danske Elvaekers Forening 9.69

DK [redacted]	011	ASN	A ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 ~~15~~	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	9.69	[redacted]	S	~~I~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: OLIEBRANCHENS FAELLESREPRAESENTATION

Petroleum Industry Association

ACRONYM: O F R

See also

ADDRESS: 1310 KØBENHAVEN k
Fredericiagade 16

Tel.: (01) 15.93.06.

AFFIL:

Title	PERSONNEL	Function
Civ.Econ	Knud Petersen	director
Civ Ing	J. Riisbro	tech asst

AP aims and actions:
AP committee currently establishing policy

Comments:

DK. 011 Oliebranchens Faellesrepraesentation 9.69

DK	[redacted]	012	IND	A [✓ B] C D E [✓ F]	01 [✓ 02] 03 04 05	11 12 13 14 [✓ 15]	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	9.69	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: DANSK ESSO'S KOMITEEN FOR MILJØVAERN

Danish Esso's Conservation Committee

ACRONYM:

See also

ADDRESS: KOBENHAVEN K,
Sankt Annae Plads 13.

Tel.: (01) 14.28.90

AFFIL: Std. Oil N. J.

Title	PERSONNEL	Function
Direktor	F.A. Lind	Chairman
Civ.Ing.	A. Meldgaard	Secretary
	5 members from principal depts.	

AP aims and actions:

To identify and control all potential pollution sources in Co's activities, and to maintain contact with the developments in AP opinions and technology.

Comments:

set up Sept. 69.

DK.012 Dansk Esso's Komiteen for Miljøvaern 9.60

DK	[redacted]	013	ASN	[✓ A] [✓ B] C D E [✓ F]	01 [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	L M [✓ S]	1 2 [✓ 3]	9.69	[redacted]	S [✓ T]
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: ASFALTINDUSTRIENS OPLYSNINGSKONTOR FOR VEJBYGNING

Asphalt Industry Association

ACRONYM: A O V

See also

ADDRESS: KOBENHAVEN V.
Grundvigs Vej 27

Tel.: VE (01) 5515

AFFIL:

Title	PERSONNEL	Function
Civ.Ing.	Herman Hansen	Director

AP aims and actions:

Proposing surveys at asphalt plants and test programme of various filters. Work probably by D. Kedelforening (DK.007).

Comments:

AP Group set up in 1968.

DK.013 Asfaltindustriens Oplysningskontor for Vejbygning 9.69

DK	[redacted]	014		~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	9,69	[redacted] S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: DENMARKS TEKNISKE HØJSKOLE
Technical University of Denmark

ACRONYM:
See also DK.006

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.Tech	A.H.M. Andreasen	professor

AP aims and actions:

Undertook 1949 survey for ATV (DK.006)

Comments:

Dr. Andreasen has now retired.

DK.014 Denmarks Tekniske Højskole 9.69

DK	[redacted]	015	ONE	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	9.69	[redacted] S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Prof. Dr. Med. POUL BONNEVIE

ACRONYM:
See also DK.004

ADDRESS: KOBENHAVN
Hygiejnisk Institut,
Københavns Universitet,

Tel.:

AFFIL: Min. of Education

Title	PERSONNEL	Function
		prof. at Inst.
	+ 2 asst. profs.	
	+ 2 lecturers.	

AP aims and actions:

Professor of Hygiene and Social Medicine.
Adviser in medical hygiene to Sundhedsstyrelsen (Health Board).
Medical adviser on AP effects to Min. of Interior.
Consultant to Arbejdshygiejnisk Institut (Occupational Hygiene Inst.) (DK.004).

Comments:

DK.015 Prof. Dr. Med. Poul Bonnevie 9.69

DK	[redacted]	016	INF	A	~~B~~	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	~~1~~	2	3	9.69	[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: "INGENIØREN"
"The Engineer"

ACRONYM:
See also

ADDRESS: KØBENHAVN
Skelbaekgade 4,

Tel.:

AFFIL: Danish Civil Engineers' Assn.
(Ingeniørhuset, Vester
Farimagsgade 31, København).

Title	PERSONNEL	Function

AP aims and actions:

Carries many of the semi-scientific articles on AP published in DK, including some of the work of the DKF.

Comments:

DK.016 "Ingeniøren" 9.69

DK	[redacted]	017	INF	A	~~B~~	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	~~1~~	2	3	2.70	[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: "INGENIØR- OG BYGNINGSVAESEN"
"Engineering and Building"

ACRONYM:
See also

ADDRESS: 1061 KØBENHAVN K.
Ved. Stranden 18,

Tel.: (01) 12 13 11

AFFIL:

Title	PERSONNEL	Function
Chief-Editor	A. Bro Rasmussen	

AP aims and actions:

Carries many of the semi-scientific articles on AP published in DK, particularly those dealing with the technical and practical aspects (such as details of installations in factories, sewage systems, filters, etc.)

Comments:

All technical matters are taken care of by Mr. Bro Rasmussen himself.

DK.017 "Ingeniør- og Bygningsvaesen" 2.70

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FRANCE - F

F	001	GOV	A	~~B~~	C	D	E	F	01	02	03	04	05	11	12	13	14	15	~~21~~	22	23	24	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	5.70	S	~~A~~
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date		

NAME: COMMISSION INTERMINISTÉRIELLE CONTRE LA POLLN. ATMOS.
Interministerial Commission for AP

ACRONYM:

See also

ADDRESS:
rue de Tilsit,
75 PARIS 8.

Tel.:

AFFIL: Min. des. Affaires Sociales
Dir. Gén. de la Santé
Publique.

Title	PERSONNEL	Function
Dr.	Boulenger*	president

AP aims and actions:
Coordination of government action on AP.

Comments:
Operates through Working Groups for various aspects (industrial furnaces, domestic heating, vehicles, etc.).
*Director for Public Health at the Ministry of Social Affairs.
Established 1962.

F.001 Commission Interministérielle contre la Polln. Atmos. 5.70

F	002	GOV	A	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	1	2	3	5.70	S	7
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date		

NAME: SECRÉTARIAT DE L'ÉTAT DE L'ENVIRONNEMENT
Secretary of State for the Environment

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:
Proposed new office

F.002 Secrétariat de l'État de l'Environnement 5.70

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F	003	00V	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	5.70	S [✓ A]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: DÉLÉGATION GÉNÉRALE À LA RECHERCHE SCI. ET TECH.
General Delegation for Scientific and Technical Research

ACRONYM: DGRST

See also

ADDRESS: 35 rue St. Dominique,
75 PARIS 7.

Tel.: 551.74.30

AFFIL: Premier Ministre
(Prime Minister)

Title	PERSONNEL	Function
M	Ternisien	
Mme	Delahaye	

AP aims and actions:

Coordinates and subsidises research (incl. AP) in university and private labs.
Arranges national conferences: involved in many international meetings.

Comments:

Established 1969; expected to dispose of much larger budget (Fr. 250m/yr? - for all supported programmes) during next few years (6th 4-yr Plan).
Environmental problems considered by WG "Nuisances", with sub-group for AP (for members, see over).

F.003 DGRST 5.70

F.003 Délégation Générale à la Recherche Sci. et Tech. 5.70

Members of Sub-Group for AP (at 18 March 1970):

Pr. Roussel, President	I.N.S.E.R.M.	F.021
N. Détrie, Rapporteur	C.I.T.E.P.A.	F.052
Mme Chapuis	C.G.C.	F.003
Mme Delahaie	D.G.R.S.T.	F.003
MM. Avy	I.R.CH.A.	F.026
Bossavy	C.E.R.A.F.E.R.	
Bourbon	I.N.S.E.R.M. - Vigoulet	F.021
Bricard	Faculté des Sciences de Paris	
Chovin	Labo. Cent. de la P. P.	F.035
Douchez	C.E.T.I.A.T.	F.085
Jacquet	E.D.F.	F.062
Letort	C.E.R.CHAR	F.061
Pradel	C.E.A.	F.060
Salé	I.F.P.	F.064

F [redacted]	004	GOV	A [✓ B] C D E F	[✓ 01] [✓ 02] [✓ 03] [✓ 04] [✓ 05]	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	[✓ 1] 2 3	5.70	[redacted] S [✓ T]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: CONSEIL SUPÉRIEURE DE L'HYGIÈNE PUBLIQUE DE FRANCE

High Council for Public Hygiene in France

ACRONYM:

See also

ADDRESS: 8 rue de la Tour des Dames,
75 PARIS 9.

Tel.:

AFFIL: Min. des Affaires Sociales
(Dir. Gén. de la Santé
Publique).

Title	PERSONNEL	Function
Representatives of the Ministries' of Industry, Social Affairs, and Transport.		

AP aims and actions:
Advice to govt. on health aspects of new developments (e.g. food additives) - incl. AP.

Comments:

F.004 Conseil Supérieure de l'Hygiène Publique de France 5.70

F [redacted]	005	GOV	A [✓ B] C D E F	01 [✓ 02] 03 04 05	[✓ 11] [✓ 12] [✓ 13] [✓ 14] [✓ 15]	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 2 [✓ 3]	5.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: COMITÉ CONSULTATIF DE L'UTILISATION DE L'ENERGIE

ACRONYM: CoCUDE

See also

ADDRESS: 97 rue de Grenelle,
75 PARIS 7.

Tel.: 551.44.30

AFFIL: Min. de l'Industrie,
(Min. of Industry)

Title	PERSONNEL	Function

AP aims and actions:
Advice on AP aspects of all developments in energy production.

Comments:
Established 1948.

F. 005 CoCUDE 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
F [redacted]	006	GOV	A [✓ B] C D [✓ E] F	01 [✓ 02] [✓ 03] [✓ 04] 05	11 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	5.70	[redacted] S [✓ T]

NAME:	CONSEIL SUPÉRIEURE DES ÉTABLISSEMENTS CLASSÉS Upper Council for the Classified Establishments	**ACRONYM:**
		See also

ADDRESS: 68 rue de Bellechasse,
75 PARIS 7.

Tel.: L.T.44.30

AFFIL: Min. de l'Industrie
(Min. of Industry)

Title	PERSONNEL	Function

AP aims and actions:

Advice (to Préfet of Départements) on AP implications of industrial developments, and on monitoring requirements.

Comments:

Have a representative in each Departement and a few inspectors in each Region.

Main responsibilities are those of factory inspection, esp. of large or dangerous industries.

F.006 Conseil Superieure des Établissements Classés 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
F [redacted]	007	GOV	A B [✓ C] D E F	[✓ 01] 02 03 04 05	11 12 13 14 15	[✓ 21] 22 23 24 25	31 32 33 34 35	L M [✓ S]	[✓ 1] 2 3	5.70	[redacted] S T

NAME:	DIRECTION DES ROUTES Roads Department	**ACRONYM:**
		See also

ADDRESS:

Tel.:

AFFIL: Min. des Transports.

Title	PERSONNEL	Function
M	Osselet*	director

AP aims and actions:

Comments:

Has study group: "Comité d'Études contre la PA par les Products d' Échappement des Automobiles" (...against AP by Vehicle Emmissions).

* French representative on many international automotive cttees.

F.007 Direction des Routes 5.70

F	021	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	5.70		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: INST. NAT. DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE

National Institute of Health and Medical Research

ACRONYM: INSERM

See also F.036 F.147

ADDRESS: 3 rue Léon Bonnat,
75 PARIS 16.

Tel.:

AFFIL: Min. des Affaires Sociales
(Min. of Social Affairs)

Title	PERSONNEL	Function
Dr.	Aujaleu	director
Prof.	Roussel	director for AP (le Vésinet)
Prof.	Bourbon	" " " (Vigoulet)

AP aims and actions:

Biochemical studies of AP: effects of vehicle exhaust gases particulates SO_2 NO_x F on microorganisms and animals.
Epidemiological studies of lung cancer in relation to AP.
Publishes: "Bulletin de l'INSERM"

Comments:

Research centres covering AP aspects:

44 Chemin de Ronde,
78 LE VÉSINET.
and:
Vigoulet-Auzil,
31 TOULOUSE.

F.021 INSERM 5.70

F	022	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	5.70		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: INSTITUT NATIONAL DE RECHERCHES AGRONOMIQUES

National Institute for Agronomic Research

ACRONYM: INRA

See also F.036

ADDRESS: 149 rue de Grenelle,
75 PARIS 7.

Tel.: 551.41.09

AFFIL: Min. de l'Agriculture
(Min. of Agriculture).

Title	PERSONNEL	Function
M	Bustarret	director
M	de Cormys	

AP aims and actions:

Effects of AP (esp. F SO_2) on vegetation and animals.

Comments:

Has a large number of research centres in F. AP work at Lagor, near Toulouse.

F.022 INRA 5.70

F [redacted] 023 NAT ~~A~~ B C ~~D~~ E F 01 02 03 04 05 11 12 13 14 15 21 ~~22~~ 23 ~~24~~ 25 31 32 33 34 35 ~~L~~ M S ~~1~~ 2 3 6.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LABORATOIRE NATIONAL D'ESSAIS
National Testing Laboratory

ACRONYM: L N E

See also

ADDRESS: 1 rue Gaston Boissier,
75 PARIS *

Tel.:

AFFIL.: Conservatoire National des Arts et Métiers,
Min. de l'Education National.

Title	PERSONNEL	Function
M.	Citti	director
M.	Martin	
M.	Platanides	
Mme.	Nonne de Salle	
	3P/12NP on AP.	

AP aims and actions:

On commission, undertakes the study of problems of AP and the measurement of gaseous and particulate emissions for administrations, industries and individuals.
Studies of monitoring techniques and networks; testing of abatement equipment, incl. industrial hygiene.
Measurements of ambient AP in the Paris area.

Comments:

AP only a part of much wider test work.

*Pollution lab. at:
22 Boulevard de Finlande,
92 COLOMBES.

F.023 L N E 6.70

F [redacted] 024 NAT ~~A~~ B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 ~~24~~ 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 5.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: DIRECTION DE LA MÉTÉOROLOGIE NATIONALE
Department of Meteorology

ACRONYM:

See also

ADDRESS: 1 quai Branly,
75 PARIS 7.

Tel.: 468.89.35

AFFIL.: Min. des Transports

Title	PERSONNEL	Function
M	Facy	i/c AP

AP aims and actions:

Studies of atmospheric turbulence and diffusion; has liquid model - injection of coloured gelatine into acid - used for le Havre.

Comments:

Lab. at Magny-les-Hameaux.

F.024 Direction de la Météorologie Nationale 5.70

F	[redacted]	025	NAT	~~A~~ ~~B~~ C ~~D~~ E F	~~01~~ ~~02~~ 03 04 05	11 12 ~~13~~ 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: CENTRE SCIENTIFIQUE ET TECHNIQUE DU BÂTIMENT

Scientific and Technical Centre for Building

ACRONYM: CSTB

See also

ADDRESS: 4 ave du Recteur Poincaré,
75 PARIS 16.

Tel.: 288.81.80

AFFIL: Min de l'Équipment et du Logement.
(Min. of Housing)

Title	PERSONNEL	Function
M	Blachère	director
Mlle	Th. Bourelly	i/c AP

AP aims and actions:

Undertakes work on commission; has studied:-
stack design and plume dispersion, effects of AP on materials of construction, measurement of pollutants (esp. strong acids), particulates emissions from domestic heating in Paris, ambient pollution around Vernon refinery.
Publishes: "Cahiers du CSTB".

Comments:

F.025 CSTB 5.7

F	[redacted]	026	NAT	~~A~~ ~~B~~ C ~~D~~ E F	01 ~~02~~ ~~03~~ ~~04~~ ~~05~~	11 12 ~~13~~ 14 15	21 ~~22~~ 23 ~~24~~ ~~25~~	31 32 33 34 ~~35~~	~~L~~ M S	~~1~~ 2 3	5.70	[redacted]	~~S~~	~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: INSTITUT NATIONAL DE RECHERCHE CHIMIQUE APPLIQUÉE

National Institute of Applied Chemical Research

ACRONYM: IRCHA

See also F.003

ADDRESS: Boîte Postale 1,
91 VERT-LE-PETIT

Tel.: 496.22.21

AFFIL: Min. de Recherche et Développement Industrielle
(Min. Indust. Res. and Develt.)

Title	PERSONNEL	Function
M	J. Chédin	director general
M	Debras	labs. manager
Dr.	M. Benarie	AP section head
M	Guichard	asst " "
M	Avy	scientific adviser
	total of ~17 on AP	

AP aims and actions:

Development of measuring techniques for pollutants.
Identification and measurement of pollutants in Rouen urban/industrial area; development of source inventory and diffusion model; atmospheric chemistry of SO_2.
Surveys, on commission, of individual industrialsources.
Measurement of SO_x NO_x dust in Paris, Rouen, Vert-le-P; runs OECD background station; preparing AP survey.
Studies of dirtying and corrosion of metals by AP.
Dust filtration (esp. high temp.) and scrubbing (odours) for cleaning gas streams.

Comments:

Paris office at:
12 quai Henri IV,
75 PARIS 4.
tel: 272.82.70.
Budget from Ministry, DGRST (F.003) and commissioned private work (total: Fr. 4½m/yr.)
Much other work besides AP.
Representation on international gps.

F.026 IRCHA 5.70

F [redacted] 027 ANF A ~~B~~ C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ ~~1~~ 2 3 5.70 [redacted] ~~S~~ ~~T~~

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE

National Centre for Scientific Research

ACRONYM: CNRS

See also

ADDRESS: 15 quai Anatole France,
75 PARIS 7.

Tel.: 555.26.70

AFFIL.: Min. de l'Éducation Nationale
(Min. of National Edn.)

Title	PERSONNEL	Function
Mme	N. Dusoulier	chief editor
Mme	A. Delmas	for AP

AP aims and actions:

Documentation centre. Publishes periodic literature abstracts: "Bulletin Signalétique" (AP in Section 880: "Chimie Appliquée", monthly, Fr.100).

Comments:

Advised by CITEPA (F.052) on AP matters.
Main function is coordination and support of scientific research in F, but for AP much of this responsibility is carried by DGRST (F.003) and the Comité de Coordination (F.050).

F.027 CNRS 5.70

F [redacted] 028 NAT ~~A~~ ~~B~~ C D E F 01 02 03 04 05 ~~11~~ 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 5.70 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: INST.NAT.DE RECH.ET DE SÉCURITÉ POUR LA PRÉV.DES ACCIDENTS...

Nat. Safety Research Institute

ACRONYM: INRS

See also

ADDRESS: 9 ave Montaigne,
75 PARIS 8.

Tel.: 225.36.50

AFFIL.:

Title	PERSONNEL	Function
M	Cave	president
M	Marcorelles	director

AP aims and actions:

Occupational hygiene aspects of AP.

Comments:

F.028 INRS 5.70

F [redacted] 035 REG ~~A~~ ~~B~~ C ~~D~~ ~~E~~ F ~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~ ~~11~~ 12 13 14 15 21 ~~22~~ ~~23~~ ~~24~~ 25 31 32 33 34 35 ~~L~~ M S ~~1~~ 2 3 5.70 [redacted] ~~S~~ ✗
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LABORATOIRE CENTRAL DE LA PRÉFECTURE DE POLICE DE PARIS
Central Laboratory of the Paris Police Department

ACRONYM:
See also F.041

ADDRESS: 39bis rue de Dantzig,
75 PARIS 15.

Tel.: 828.36.92

AFFIL:

Title	PERSONNEL	Function
Prof.	R. Chovin	Director
M	H. Forestier	Asst. Director
M	A. Marie de Ficquelmont	Scientific Res. Dept.
M	L. Truffert	Public & Indust. Hyg. Dept.*
M	Gaudillière	industrial AP
M	R. Héros	vehicle exhaust gases
M	M. Garein	domestic AP

AP aims and actions:

Identification and surveillance of ind. AP sources in 'Boucle de la Seine' (NW Paris); investigation of complaints.
Measurements of level of AP (CO HC NO_x Pb) from vehicles in streets, tunnels and carparks in Paris Region; CO in blood.
Analysis of particulates (incl. Bzp).
Training for visiting students.
Publishes ann. report of AP in Paris Region.

Comments:

Has well-equipped mobile lab.
7P/10 NP on AP measurements.
1P/4 NP on analytical back-up.
Data provide basis for govt. policy development.

* Service de Salubrité Publique et Industrielle.

F.035 Laboratoire Central de la Préfecture de Police de Paris 5.70

F [redacted] 036 REG ~~A~~ B C ~~D~~ E F 01 02 03 04 05 ~~11~~ ~~12~~ ~~13~~ 14 15 21 22 23 ~~24~~ ~~25~~ 31 32 33 34 35 L ~~M~~ S 1 ~~2~~ 3 5.70 [redacted] S ✗
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LABORATOIRE DE RECHERCHES DE LAGOR
Research Laboratory, Lagor

ACRONYM: Lagor
See also F.101 F.147

ADDRESS:
64 PAU.

Tel.: 59.27.03.25

AFFIL: Préfecture des Basses-Pyrenées.
INSERM (F.021).

Title	PERSONNEL	Function
Prof.	P. Bourbon	director

AP aims and actions:

Surveys and effects of SO_2/F in industrial area.
Study of physics and chemistry of SO_2 in atmosphere.

Comments:

F.036 Lagor 5.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
F [redacted]	041	MUN	~~A~~ B C ~~D~~ ~~E~~ F	01 ~~02~~ 03 04 05	~~11~~ 12 13 14 15	21 22 ~~23~~ ~~24~~ 25	31 32 33 34 35	L M S	1 2 3	5.70	[redacted]	S 7

NAME: LABORATOIRE D'HYGIÈNE DE LA VILLE DE PARIS

Paris Municipal Hygiene Laboratory

ACRONYM:

See also

ADDRESS: 1 bis rue des Hospitalières-
Saint-Gervais,
75 PARIS 4.

Tel.: .93.49

AFFIL.: Préfecture de la Ville de Paris.

Title	PERSONNEL	Function
Dr.	L. Coin	director
M	J. Pelletier	i/c AP
M	Bression	

AP aims and actions:

Measurements of smoke/SO_2 /CO_2 levels in urban Paris over several years; maps and charts of trends.

Surveillance of air quality in enclosed spaces (e.g. Métro).

Occasional measurements of other pollutants (e.g. NO_x).

Plan network of sampling stations (with CPU-F.089), possibly with epidemiological correlations.

Comments:

Concerned with all aspects of public hygiene, esp. WP; AP a relatively small activity.

Results published as available, by CITEPA (F.052).

F.041 Laboratoire d'Hygiène de la Ville de Paris 5.70

F [redacted]	050	ASN	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted] S ~~A~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: "COMITÉ DE COORDINATION"
Coordinating Committee

ACRONYM:

See also F.051-2-3-4

ADDRESS:

Tel.:

AFFIL: APPA (F.051)
CAPA (F.054)
CATPA(F.053)

Title	PERSONNEL	Function
Prof.	H. Moureu	chairman
Prof.	Roussel)	for APPA
Dr.	Sommer)	
M	de Francliеu)	for CAPA
M	Pile)	
M	J. Détrie)	for CATPA
M	H. Perdon)	

AP aims and actions:

Coordination of activities of the three affiliated bodies, and hence also of CITEPA (F.052) and UTAC (F.057).

Comments:

Established 1965, at govt. request.

F.050 Comité de Coordination 5.70

F [redacted]	051	ANF	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	5.70	[redacted] S ~~A~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ASSOCIATION POUR LA PRÉVENTION DE LA POLLUTION ATMOSPHERIQUE
Association for the Prevention of AP

ACRONYM: APPA

See also F.050-2-3-4

ADDRESS: 62 rue de Courcelles,
75 PARIS 8.

Tel.: WAG.66.51

AFFIL: "Comite de Coordination"
(F.050).

Title	PERSONNEL	Function
Prof.	H. Moureu	president
M.	Queret	secretary
	(members listed in Text Appendix)	

AP aims and actions:

Coordination of information on AP, esp. for CATPA (F.053) and CITEPA (F.052).
Publishes: "Pollution Atmosphérique" (Q'ly, Fr.48/yr) as a medium for public education.
Advises public authorities through sub-cttees on flora, fauna, and green areas.

Comments:

Established 1958, officially recognized 1962.
Has regional committees; also library and exhibition material.

F.051 APPA 5.70

F	[redacted]	052	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	5.70	[redacted]	S 1
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: CENTRE INTERPROFESSIONNEL TECHNIQUE D'ÉTUDES DE LA P.A.
Interprofessional Technical Centre for AP Studies

ACRONYM: CITEPA

See also F.050 F.053

ADDRESS: 28 rue de la Source,
75 PARIS 16.

Tel:

AFFIL: CATPA (F.053)

Title	PERSONNEL	Function
M	Nérot	president
M	J. Détrie	director

AP aims and actions:

Coordination and dissemination for all F industry on sources and abatement of AP; organises conferences; produces quarterly information digest of AP activities worldwide.

Advises govt. on proposed regulations. By comparison of existing methods, is preparing basis for regulation on stack heights calculated for urban locations.

Comments:

5.70

F.052 CITEPA

F	[redacted]	053	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	5.70	[redacted]	S 1
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: COMITÉ D'ACTION TECHNIQUE CONTRE LA POLLN. ATMOSPHERIQUE
Technical Action Committee against AP

ACRONYM: CATPA

See also F.050 F.052

ADDRESS: 28 rue de la Source,
75 PARIS 16.

Tel: MIR.41.23

AFFIL: "Comité de Coordination" (F.050).
CITEPA (F.052).

Title	PERSONNEL	Function
M	L. Armand	president
M	H. Perdon	secretary
	(Members listed in Text Appendix)	

AP aims and actions:

Coordination of information on industrial and urban emissions: AP aspects of fuel usage; abatement techniques; location of industrial zones.

Information and training through publication of articles (e.g. in Pollution Atmosphérique - F.051).

Comments:

Practical work undertaken through CITEPA (F.052).

5.70

F.053 CATPA

F [redacted]	054	ASN	A [✓ B] C D E F	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 [✓ 34] 35	[✓ L] M S	[✓ 1] 2 3	5.70	[redacted] S ✗
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: COMITÉ D'ACTION POUR L'ASSAINISSEMENT DE L'ATMOSPHÈRE

Action Committee for Atmospheric Purification

ACRONYM: CAPA

See also F.050 F.057

ADDRESS: 54 ave. Marceau,
75 PARIS 8.

Tel.: ELY.15.93

AFFIL: "Comité de Coordination" (F.050).
UTAC (F.057).

Title	PERSONNEL	Function
M	G. Gallienne	president
	+ 12 representatives of automotive interests (listed in Text Appendix).	

AP aims and actions:

Coordination of information on vehicle emissions; methods of reduction; relationship with traffic problems.
Information and training through publication of articles.

Comments:

Practical work largely undertaken by member organisations and by UTAC (F.057).

F.054 C A P A 5.70

F [redacted]	057	ASN	[✓ A] B C [✓ D] E F	[✓ 01] 02 03 04 [✓ 05]	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3		[redacted] [✓ S] ✗
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: UNION TECHNIQUE DE L'AUTOMOBILE...*

Technical Association for Cars, Motor Cycles and Bicycles

ACRONYM: UTAC

See also F.054

ADDRESS: Autodrome de Linas,
91 MONTLHERY.

Tel.: Montlhery 10.47

AFFIL: Vehicle mfrs' associations.
Service des Mines.
CAPA (F.054)

Title	PERSONNEL	Function
M.	Lemaigre	president
M.	Chapoux	technical director
M.	Leguen	dept. head, incl. AP
M.	Chavant	engineer
M.	Cayla	engineer
Mme.	Fouyer	chemist
M.	Millerioux	mathematics

AP aims and actions:

Bench and track tests of engines for conformity with regulations (e.g. smoke emissions, crankcase recycle, noise); results interpreted and certificate issued by Service des Mines. Information-testing of exhaust emissions by US/Euro. test cycles.
Reviews of test procedures and equipment to advise govt.
Documentation on automotive AP matter.

Comments:

*... du Motocycle et du Cycle.

Head Office: 157 rue Lecourbe,
75 PARIS 15.
tel: 842.53.90

Officially recognised private assn.

F.057 U T A C 5.70

F [redacted] 058 ASN A ~~B~~ ~~C~~ D E F 01 02 03 04 05 11 12 13 14 15 21 ~~22~~ 23 24 25 31 32 33 34 35 ~~L~~ M S 1 2 ~~3~~ 5.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ASSOCIATION FRANÇAISE DE NORMALISATION

ACRONYM: AFNOR

See also

ADDRESS 2* rue ND-des-Victoires,
75 PARIS 2.

Tel.: 237.95.80

AFFIL:

Title	PERSONNEL	Function
M	Frontard	director

AP aims and actions:

Standardisation of equipment and techniques for measurement of pollutants.

Comments:

F.058 AFNOR 5.70

F [redacted] 060 IND ~~A~~ B C ~~D~~ E F 01 02 03 04 ~~05~~ ~~11~~ 12 ~~13~~ 14 15 21 22 23 ~~24~~ 25 31 32 ~~33~~ 34 35 ~~L~~ M S 1 ~~2~~ 3 5.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: COMMISSARIAT DE L'ÉNERGIE ATOMIQUE
Atomic Energy Commission

ACRONYM: CEA

See also

ADDRESS: 29 rue de la Fédération,
75 PARIS 15.

Tel.:

AFFIL: Prime Minister

Title	PERSONNEL	Function
M	Pradel	

AP aims and actions:

Makes national survey of AP in relation to meteorology; corrosion studies.

Studies of aerosol physics and the interaction of gases and particles; effectiveness of filters.

Proposed research into mechanism of lung clearnace.

Comments:

F.060 Commissariat de l'Énergie Atomique 5.70

F	[redacted]	061	IND	~~A~~ ~~B~~ C ~~D~~ E F	01 ~~02~~ 03 04 05	~~11~~ ~~12~~ 13 14 15	21 ~~22~~ 23 ~~24~~ ~~25~~	31 ~~32~~ ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted] ~~S~~	~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: CENTRE D'ÉTUDES ET RECHERCHES DES CHARBONNAGES DE FRANCE

Research Centre of the French (National) Coal Industry.

ACRONYM: CERCHAR

See also

ADDRESS: Boite Postale 27, *
60 CRIEL.

Tel.: 455.06.85

AFFIL: Ministérie de l'Industrie,
Direction des Mines.

Title	PERSONNEL	Function
M	Cheradame	technical director) at
Prof.	Letort	scientific director) Paris ø
M	Delannoy	research director)
M	P. Dumoutet	head of Thermal Dept.
M	Desseine	head of Nuisances Group
M	Le Bouffant	biology
M	Busso	combustion
M	Froger	dust control
M	Ferrand	analyses

AP aims and actions:

Full-scale studies of flame aerodynamics and of formation of NO_x in flames (DGRST contract - F.003).
Lab. studies of operating variables to minimise emissions from incineration of domestic and industrial waste.
Research and consultancy service on equipment and techniques for reduction of soot and grit emissions.
Use of coloured smokes in full scale and in low-speed wind tunnel for individual stack designs.
Ambient AP analyses (SO_x NO_x CO dust - esp. in mines). Have developed long-period particulates sampler (plastic sponge); commercialised.
Chemical and biological studies of interactions between gases and particulates. Animal studies of lung function and clearance after dust loading; inhibition of silicosis with Al salts.

COMMENTS:

ø 35 rue Saint-Dominique,
75 PARIS 7.
tel: 468.74.30

* Location known as Verneuil.

~ 12P Fr. 1½m/yr on AP etc.

F.061 C E R C H A R 5.70

F	[redacted]	062	IND	A B C D ~~E~~ F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted] S	~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: ÉLECTRICITÉ DE FRANCE

French (National) Electricity

ACRONYM: EDF

See also

ADDRESS: 1 quai de Saint-Ouen,
93 SAINT DENIS.

Tel.: PLA.20.20

AFFIL:

Title	PERSONNEL	Function
M	Debrun	director
M	de Retz	chief production engr.
M	Jacquet	director of research dept.

AP aims and actions:

Measurement of dust and SO_2 emissions from (thermal) power stations using radio-meteorography.
Research into SO_x NO_x in combustion gases; proposing 500 MW flue gas de-S unit (NH_3).
Improvement of precipitators and filters.
Studies of micro-meteorology; preparation of dispersion formulae; wind tunnel simulation.
Publishes annually: "Prévention des Nuisances d'Exploitation."

Comments:

Research at CHATOU.
Pilot plant at ST. OUEN.
Head office at:
3 rue de Messine,
75 PARIS.

F.062 Électricité de France 5.70

F [redacted] 063 ASN A B C D E F D1 D2 D3 D4 D5 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S 1
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: INSTITUT DE RECHERCHES DE LA SIDÉRURGIE
Research Institute of the Iron Industry

ACRONYM: IRSID
See also

ADDRESS: 185 rue du Président Roosevelt,
78 SAINT-GERMAIN-EN-LAYE.

Tel: 963.24.01
AFFIL:

Title	PERSONNEL	Function
M	Pétiet	president
M	Allard	director

AP aims and actions:
Studies of fume and dust suppression.

Comments:
Not at present active in AP; new lab. proposed at Nancy.

F.063 Institut de Recherches de la Sidérurgie (IRSID) 5.70

F [redacted] 064 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S 1
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: INSTITUT FRANÇAIS DU PÉTROLE
French Institute of Petroleum

ACRONYM: IFP
See also

ADDRESS: 1 ave du Bois Préau,
92 RUEIL-MALMAISON.

Tel.: 967.17.66
AFFIL:

Title	PERSONNEL	Function
M	R. Navarre	pres. - dir. gen.
M	Salé	automotive emissions
M	Leprince	fuel oil desulphurisation
	total 14P/26NP on ~ Fr. 4m/yr.	AP

AP aims and actions:
Automotive emissions reduction through development of stratified mixtures, exhaust gas recirculation, fuel injection, catalytic exhaust reactors; fundamentals of NO_x formation.
Fuel oil desulphurisation studies, catalyst developments.
Removal of SO_2 and H_2S from gas streams.
Publishes: "Revue de l'Institut du Pétrole" (m'ly; Fr. 150/yr.).

Comments:
Fuel oil de-S and H_2S removal processes nearing commercialisation (this work at SOLAIZE-Rhône).

F.064 Institut Français du Pétrole (IFP) 5.70

F	[redacted]	065	ASN	~~A~~ ~~B~~ C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: INSTITUT FRANÇAIS DES COMBUSTIBLES ET DE L'ENERGIE

French Institute of Fuels and Energy

ACRONYM: IFCE

See also

ADDRESS: 3 rue Henri Heine,
75 PARIS 16.

Tel.: 647.41.23

AFFIL:

Title	PERSONNEL	Function
M	Couture	president
M	Nérot	vice president

AP aims and actions:

Evaluation and testing of space heating equipment.

Comments:

F.065 Institut Français des Combustibles et de l'Energie (IFCE) 5.70

F	[redacted]	066	ASN	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: CENTRE D'ÉTUDES...DE L'INDUSTRIE DES LIANTS HYDRAULIQUES

Research Centre of the Cement Industry

ACRONYM: CERILH

See also

ADDRESS: 23 rue Cronstadt,
75 PARIS 15.

Tel.: 532.58.40

AFFIL:

Title	PERSONNEL	Function
M	Misset	president
M	Pelletier	director

AP aims and actions:

Investigation of dust abatement procedures.

Comments:

F.066 CERILH 5.70

F [redacted]	083	ASN	~~A~~ ~~B~~ C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S ~~T~~
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: CENTRE TECHNIQUE DES INDUSTRIES DE LA FONDERIE
Technical Centre of the Foundary Industry

ACRONYM: CTIF

See also

ADDRESS: 12 ave. Raphael,
75 PARIS 16.

Tel: 870.72.50

AFFIL:

Title	PERSONNEL	Function
M	Delachaux	president

AP aims and actions:

Tests of boilers and furnaces for boiler manufacturers.

Comments:

F.083 Centre Techniques des Industries de la Fonderie (CTIF) 5.70

F [redacted]	085	ASN	~~A~~ ~~B~~ C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 ~~13~~ 14 15	21 22 23 ~~24~~ 25	31 ~~32~~ ~~33~~ 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: CENTRE TECHNIQUE DES INDUSTRIES AÉRAULIQUES ET THERMIQUES
Technical Centre of the Ventilation and Heating Industry

ACRONYM: CETIAT

See also

ADDRESS: 38 rue Copernic,
75 PARIS 16.

Tel: 553.97.09

AFFIL:

Title	PERSONNEL	Function
M	Douchez	director general

AP aims and actions:

Improved dispersion of combustion gases.
Development and evaluation of vortex-chimney device.
Studies of the formation of aerosols and droplets.
Improved boiler operation; corrosion studies.
Ventilation requirements of tunnels and garages.

Comments:

Equipment manufacturers' group.

F.085 CETIAT 5.70

F [redacted]	086	ASN	A [✓ B] C D E [✓ F]	01 02 [✓ 03] 04 05	11 12 13 14 [✓ 15]	21 22 23 24 25	31 32 33 34 [✓ 35]	L M [✓ S]	1 2 [✓ 3]	5.70	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: SOCIÉTÉ DE CHIMIE INDUSTRIELLE
Society of Industrial Chemistry

ACRONYM: SCI

See also

ADDRESS: 80 route de Saint-Cloud,
92 RUEIL-MALMAISON.

Tel.: 967.77.95

AFFIL:

Title	PERSONNEL	Function
M	G. Fleury	president

AP aims and actions:

Advice on AP aspects of chemical industry activities. Publishes "Chimie", which carries occasional AP articles.

Comments:

F.086 Société de Chimie Industrielle 5.70

F [redacted]	089	IND	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: COMPAGNIE PARISIENNE DE CHAUFFAGE URBAIN
Paris Urban Heating Co.

ACRONYM: CPCU

See also F.041

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Surveys of ambient AP (smoke/SO_2) in urban Paris - in cooperation with Paris Hygiene Lab. (F.041).

Comments:

F.089 Compagnie Parisienne de Chauffage Urbain (CPCU)

F	090	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size

1 2 3			S T
Status	Date		

NAME: SOC. DE CONTRÔLE TECH. ET D'EXPERTISES DE LA CONSTRUCTION
Society for Building Technology

ACRONYM: SoCoTEC

See also

ADDRESS: 47 rue Marx Dormoix,
78 PARIS 18.

Tel: 607.96.37

AFFIL:

Title	PERSONNEL	Function
M	Lebelle	
M	Brénier	

AP aims and actions:

Comments:

F.090 SoCoTEC

F	091	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size

1 2 3	5.70		S T
Status	Date		

NAME: SOCIÉTÉ GRENOBLOISE ... D'APPLICATIONS HYDRAULIQUES
Grenoble Society of Hydraulic Technology

ACRONYM: SOGREAH

See also

ADDRESS: Avenue Léon-Blum,
38 GRENOBLE.

Tel: 75.87.52.11

AFFIL:

Title	PERSONNEL	Function
M	G. Halbronn	president

AP aims and actions:

Has developed water model of atmospheric dispersion (moving injection of dyed salt solution into bath of still water). Representation of buoyancy by density variations.

Comments:

Mostly concerned with water flow technology (incl WP).

F.091 SOGREAH 5.70

F [redacted]	092	ASN	A	[✓ B]	C	D	E	[✓ F]	01	[✓ 02]	03	04	05	11	12	13	14	15	21	22	23	24	25	[✓ 31]	[✓ 32]	33	34	35	L	M	[✓ S]	1	2	[✓ 3]	5.70	[redacted]	S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: SOC. DE CONTRÔLE, D'ÉTUDES ET DE DOC. POUR L'UTIL.DU CHARBON

Coal Utilisation Study Group

ACRONYM: SCEDUC

See also F.061

ADDRESS: 18 rue Bât-d'Argent,
69 LYON.

Tel.: 78.28.55.75

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Information on solid fuel AP problems.

Comments:

Not very active in AP; provides moral support for CERCHAR (F.061).

F.092 SCEDUC 5.70

F [redacted]	093	ASN	A	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	1	2	3		[redacted]	S	[✓ T]
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: C'TÉ SCI. ET TECH. DE L'IND. DE CHAUFFAGE ET VENTILISATION

Technical Group of the Heating and Ventilation Industry

ACRONYM: CoSTIC

See also

ADDRESS: 9 rue la Pérousse,
75 PARIS 16.

Tel.: 553.96.31

AFFIL:

Title	PERSONNEL	Function
M	R. Cadiergues	director

AP aims and actions:

Comments:

F.093 CoSTIC

F 094 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5 T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: SOC. PARISIENNE D'ENTRETIEN... DES APPAREILS À CHARBON
Paris Society for the Maintenance of Coal-Fired Furnaces

ACRONYM: SPEDAC

See also

ADDRESS: 13 rue Michelet,
92 BOULOGNE.

Tel: MOL.63.00

AFFIL:

Title	PERSONNEL	Function
M	le Bris	director

AP aims and actions:

Comments:

F.094 Soc. Parisienne d'Entretien... des Appareils à Charbon

F [redacted]	101	IND	~~A~~	B	C	~~D~~	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	~~24~~	25	31	32	~~33~~	34	35	L	M	~~S~~	1	~~2~~	3	5.70	[redacted]	S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: SOCIÉTÉ NATIONALE DES PÉTROLES D'AQUITAINE
National Aquitaine Oil Co.

ACRONYM: SNPA
See also F.036 F.147

ADDRESS: Tour d'Quitaine,
92 COURBEVOIE.

Tel.: 256.61.61

AFFIL: Compagnie Fr. de Raffinage
ELF.

Title	PERSONNEL	Function
M	Guillaumat	pres./dir. gen.

AP aims and actions:

Surveys of SO_2 around Lacq.
Studies of flue-gas desulphurisation techniques.

Comments:

Part of nationalised petroleum group; responsible for large high-S gas field at Lacq.
Have lab. at Lacq.

F.101 Société Nationale des Pétroles d'Aquitaine (SNPA) 5.70

F [redacted]	102	IND	~~A~~	B	C	D	E	~~F~~	~~01~~	02	03	04	05	11	12	13	14	15	21	22	23	24	25	~~31~~	32	33	34	35	L	M	~~S~~	1	~~2~~	3	5.70	[redacted]	S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: ESSO STANDARD SAF
"Esso France"

ACRONYM: ESSAF
See also

ADDRESS: Rue de Tronquet,
76 MONT-SAINT-AIGNAN.

Tel.: Rouen, 70.06.90

AFFIL: Standard Oil N.J.

Title	PERSONNEL	Function
Dr.	J. K. Patterson	director
M	M. Calmettes	i/c AP
M	R. Dupas	AP adviser

AP aims and actions:

Investigation of effects of gasoline quality on vehicle emissions.

Comments:

Head office at 78 Courbevoie.

F.102 ESSAF 5.70

F	103	IND	~~A~~ B C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: MOBILOIL S.A.F.

ACRONYM:

See also

ADDRESS: 75 PARIS.

Tel.:

AFFIL:

Title	PERSONNEL	Function
M.	Jublot	director of research

AP aims and actions:

Studies of the interrelation of fuel quality and automotive engine operation.

Comments:

F.103 Mobiloil S.A.F. 5.70

F	105	IND	~~A~~ B C D E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: BERTIN

ACRONYM:

See also

ADDRESS: Boîte Postale 3,
78 PLAISIR.

Tel.: 951.34.60

AFFIL:

Title	PERSONNEL	Function
M	J. Bertin	president

AP aims and actions:

Dispersion studies in atmosphere using sondes and lidar. Studies of improved dispersion through pulsing emissions. Proposed research on improved burners and combustion.

Comments:

Seeking grants from DGRST (F.003).

F.105 Bertin 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
F	124	IND	~~A~~ B C D E F/	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	S	T

NAME: LABORATOIRE AÉRODYNAMIQUE EIFFEL

Eiffel Aerodynamics Laboratory

ACRONYM:

See also

ADDRESS: 67 rue Boileau,
75 PARIS 16.

Tel.: AUT.07.90

AFFIL:

Title	PERSONNEL	Function
M	L. Romani	tech. director

AP aims and actions:

Studies of wind turbulence.

Comments:

F.124 Laboratoire Aérodynamique Eiffel 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
F	126		A B C ~~D~~ E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~		S	T

NAME: VERITAS BUREAU

ACRONYM: VERITA

See also

ADDRESS: 31 rue Henri Rochefort,
75 PARIS 17.

Tel.: 227.80.40

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Commissioned work on industrial emissions.

Comments:

F.126 Veritas Bureau

F	141	ACD	A ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	6.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ECOLE NATIONALE DE LA SANTÉ PUBLIQUE
National School For Public Health

ACRONYM: E N S P

See also

ADDRESS: Ave. du Prof. Léon Bernard,
35 RENNES.

Tel.:

AFFIL.: Min. des Affaires Sociales.

Title	PERSONNEL	Function
Prof.	J. Sénécal	
Dr.	Cayla	

AP aims and actions:

Training of Medical Officers and Public Health Engineers; incl. hygiene aspects of environmental pollution.
Ambient survey at Rennes.

Comments:

F.141 École Nationale de la Santé Publique (E N S P) 6.70

F	142	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: U.PARIS, Laboratoire de Toxicologie
U. Paris, Laboratory of Toxicology

ACRONYM:

See also

ADDRESS: Faculté de Pharmacie,
4 ave. de l'Observatoire
75 PARIS 6.

Tel.: 326.26.80

AFFIL.:

Title	PERSONNEL	Function
Prof.	R. Truhaut	director

AP aims and actions:
Toxicological effects of AP (inc. benzpyrene, and CO on rabbits).

Comments:
Representative for F. on WHO.

F.142 U. Paris, Laboratoire de Toxicologie 5.70

F [redacted]	143	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ ~~25~~	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: INST. D'OPTIQUE DE PARIS, Lab. de Physique des Aérosols

Optical Institute, Paris; Aerosol Physics Laboratory

ACRONYM:

See also

ADDRESS: 3 Boulevard Pasteur,
75 PARIS 15.

Tel.: 306.42.63

AFFIL:

Title	PERSONNEL	Function
Prof.	J. Bricard	director

AP aims and actions:

Studies of the properties of pollutant aerosols.

Comments:

F.143 Inst. d'Optique de Paris, Lab. de Physique des Aérosols 5.70

F [redacted]	144	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted] S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: UNIVERSITÉ DE LILLE, INSTITUT DE MÉCANIQUE DES FLUIDES

Fluid Mechanics Institute, Lille.

ACRONYM: IMFL

See also

ADDRESS: 5 Boulevard Painleve,
59 LILLE.

Tel.: 20.53.06.65

AFFIL:

Title	PERSONNEL	Function
Prof.	A. Martinot-Lagarde	director

AP aims and actions:

Research into the aerodynamics etc. of ventilation; testing and calibration of equipment.

Comments:

F.144 I M F L 5.70

F [redacted]	145	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted] S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: UNIVERSITE DE MARSEILLE, INSTITUT DE MECANIQUE DES FLUIDES
Fluid Mechanics Institute, Marseilles

ACRONYM: IMFM

See also

ADDRESS: 1 rue Honnorat,
MARSEILLE 7

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	J. Valensi	director

AP aims and actions:

Aerodynamics research into ventilation and dispersion of pollutants.

Comments:

F.145 I M F M 5.70

F [redacted]	146	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ ~~3~~	5.70	[redacted] S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: UNIVERSITÉ DE TOULOUSE, INSTITUT DE MÉCANIQUE DES FLUIDES
Fluid Mechanics Institute, Toulouse.

ACRONYM: I M F T

See also

ADDRESS: 2 rue Camichol,
31 TOULOUSE.

Tel.: 61.52.86.48

AFFIL:

Title	PERSONNEL	Function
Prof.	L. Escande	director

AP aims and actions:

Aerodynamics of dispersion; techniques of plume measurement.

Comments:

F.146 I M F T 5.70

F	[redacted]	147	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S ~~X~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U. DE TOULOUSE, FACULTÉ DE MÉDECINE ET DE PHARMACIE

U. of Toulouse, Faculty of Medicine and Pharmacy

ACRONYM:

See also F.021 F.036

ADDRESS: 20 rue Saint-Jacques,
31 TOULOUSE.

Tel.: 52.64.61

AFFIL:

Title	PERSONNEL	Function
Prof.	P. Bourbon	director

AP aims and actions:

Hygiene aspects of AP in the Toulouse area.

Comments:

Prof. Bourbon cooperates closely in AP matters (SO_2 NO_x F) with other organisations in the area (Lagor, Péchiney, SNPA).

F.147 U. of Toulouse, Faculté de Médecine et de Pharmacie 5.70

F	[redacted]	148	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 ~~14~~ 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S ~~X~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: COLLÈGE HOSPITALIER UNIVERSITAIRE, BESANÇON

Hospital University College, Besançon.

ACRONYM: CHU-Besançon

See also

ADDRESS:
BESANÇON

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Studies of the effects of AP on health.

Comments:

F.148 C H U - Besançon 5.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
F	149	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	5.70	S	T

NAME: COLLÈGE HOSPITALIER UNIVERSITAIRE,MARSEILLE

Hospital University College, Marseilles

ACRONYM: CHU-Marseille

See also

ADDRESS:

MARSEILLE

Tel.:

AFFIL.:

Title	PERSONNEL	Function

AP aims and actions:

Surveys of pollen and moulds in atmosphere.

Comments:

F.149 C H U - Marseille 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
F	150	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	5.70	S	T

NAME: COLLÈGE HOSPITALIER UNIVERSITAIRE, ROUEN

Hospital University College, Rouen

ACRONYM: CHU-Rouen

See also

ADDRESS:

76 ROUEN

Tel.:

AFFIL.:

Title	PERSONNEL	Function

AP aims and actions:

Studies of atmospheric micro-biology and bacteriological testing.

Epidemiological studies in relation to AP.

Comments:

F.150 C. H. U. - Rouen 5.70

F	151	ACD	~~A~~	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	~~25~~	31	32	33	34	35	L	M	~~S~~	1	2	~~3~~	5.70	S	T				
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date						

NAME: UNIVERSITÉ DE MONTPELLIER, FACULTÉ DES SCIENCES
University of Montpellier, Faculty of Science

ACRONYM:

See also

ADDRESS: 31 rue de l'Université,
MONTPELLIER.

Tel.: 72.49.00

AFFIL:

Title	PERSONNEL	Function
Prof.	Viallet	

AP aims and actions:

Studies of the interaction of pollutants (SO_2 NO_x HC).

Comments:

Proposed programme.

F.151 Université de Montpellier, Faculté des Sc[illegible]ces 5.70

F	152	ACD	~~A~~	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	~~25~~	31	32	~~33~~	34	35	L	M	~~S~~	1	2	~~3~~	5.70	S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date		

NAME: UNIVERSITY DE ST. ÉTIENNE, FACULTÉ DES SCIENCES
University of St. Etienne, Faculty of Science

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL:
Stud

Title	PERSONNEL	Function
Prof.	Joubert	

AP aims and actions:

Study of aerosols - particle sizes, charge, movement.
Studies of burners, combustion and flue gas cleaning.

Comments:

Proposed programmes.

F.152 University de St. Étienne, Faculté de Sciences 5.70

F	[redacted]	153	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ ~~25~~	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	T
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: UNIVERSITÉ DE TOULOUSE
University of Toulouse

ACRONYM:

See also

ADDRESS: 20 rue Saint-Jacques,
TOULOUSE.

Tel: 52.64.61

AFFIL:

Title	PERSONNEL	Function
Prof.	Fontan	

AP aims and actions:

Studies of the physics and chemistry of AP aerosols; formation and decay; use of lidar.

Comments:

Proposed programme.

F.153 Université de Toulouse 5.70

F	[redacted]	154	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 ~~25~~	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: UNIVERSITÉ D'AIX-MARSEILLE, FACULTÉ DES SCIENCES
University of Aix-Marseille, Faculty of Science

ACRONYM:

See also

ADDRESS: 38 Cours Mirabeau,
AIX-EN-PROVENCE.

Tel: 27.89.47

AFFIL:

Title	PERSONNEL	Function
Prof.	Favre	

AP aims and actions:

Research into the transfer of pollutants between atmosphere and ocean.

Comments:

Proposed programme.

F.154 Université d'Aix-Marseille, Faculté des Sciences 5.70

F [redacted]	155	ACD	~~A~~ B C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: UNIVERSITÉ DE ROUEN, Faculté des Sciences
University of Rouen, Faculty of Science

ACRONYM:

See also

ADDRESS:
76 ROUEN.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	Rollin	

AP aims and actions:

Studies of diffusion turbulence.
Effects of SO_2 on sensitive plants.

Comments:

Proposed programmes.

F.155 Université de Rouen, Faculté des Sciences 5.70

F [redacted]	156	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: UNIVERSITÉ DE BORDEAUX, FACULTÉ DE MÉDECINE
University of Bordeaux, Medical Faculty

ACRONYM:

See also

ADDRESS: 29 Cours d'Albret,
BORDEAUX.

Tel.: 44.76.53

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Studies of chronic bronchitis in relation to ambient pollution levels; student absenteeism epidemiology.

Comments:

F.156 Université de Bordeaux. Faculté de Médecine 5.70

F [redacted]	157	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	~~T~~
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: UNIVERSITÉ DE CAEN. Faculté de Médecine
University of Caen, Medical Faculty

ACRONYM:

See also

ADDRESS: Esplanade de la Paix,
CAEN.

Tel: 92.93.67

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Studies of the effects of AP in enclosed spaces.

Comments:

Proposed programme.

F.157 Université de Caen. Faculté de Medecine 5.70

F [redacted]	158	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: HOSPICE DE LYON
Lyons Hospital

ACRONYM:

See also

ADDRESS: 69 LYON

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Measurement of atmospheric pollen and spores.

Comments:

F.158 Hospice de Lyon 5.70

GERMANY (DEUTSCHLAND) - D

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
D	001	SOC	A ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 ~~14~~ ~~15~~	~~21~~ 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	12.69	S ~~/~~

NAME: INTERPARLAMENTARISCHE ARBEITSGEMEINSCHAFT
Interparliamentary Working Group

ACRONYM: I P A

See also

ADDRESS: 5300 BONN,
Bundeshaus.
(Postfach 118)

Tel.: 02221-26666

AFFIL:

Title	PERSONNEL	Function
Dr.	Schmidt (CDU - Wuppertal)	chairman
Hr.	Burhenne	head of secretariat

AP aims and actions:

Consideration and initiation of all kinds of environmental conservation measures (not only A/W P). Consults appropriate experts from industry and univ's.
Drafts new regulations for presentation to Bundestag (or Landtag if local problem).

Comments:

Private all-party group of conservation-minded reps. of Bundestag & Landtage).
Sporadic activity; meets ad-hoc.
Proposals not necessarily accepted.
Initiated first gov't interest in envtl. polln. in 1956, but less active since mid-69.

D.001 Interparlamentarische Arbeitsgemeinschaft 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
D	002	NAT	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ ~~23~~ 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	12.69	S ~~/~~

NAME: INSTITUT FÜR WASSER- BODEN- UND LUFTHYGIENE
Institute for Water, Soil and Air Cleanliness

ACRONYM: WaBoLu

See also D.406

ADDRESS: 1000 BERLIN 33 (Dahlem),
Correnspla tz 1.

Tel.: 0411 - 76.39.01

AFFIL: Bundesgesundheitsamt
(Federal Health Board)

(D.406)- Aussenstelle at Dusseldorf

Title	PERSONNEL	Function
Dr.Prof.	A. Heller	director
Dir.Prof	E. Lahmann	i/c AP Dept.
Dr.	E. Stresemann	
Dip.Met	E. Weber	
~4	on AP.	

AP aims and actions:

Surveys of emissions and immissions of smoke and gases.
Devel't and testing of std methods for meas'g pollutants (esp. for Gewerbe Aufsichtsämte)(mostly WP).
Studies of health effects of ambient AP.
Publication of basic surveys and general findings.
Technical advice on AP etc to local licensing authorities (Landkreise or Regierungspräsidente).
Appeal adviser in litigation.

Comments:

Member of VDI Komm. R. der Luft.

D.002 Institut für Wasser- Boden- und Lufthygiene (WaBoLu) 12.69

D [redacted]	003	NAT	[✓ A] B C [✓ D] E F	01 02 03 04 [✓ 05]	[✓ 11] 12 13 14 15	21 [✓ 22] 23 [✓ 24] 25	31 32 33 34 35	L [✓ M] S	[✓ 1] 2 3	12.69	[redacted]	S	[✓ T]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: ZENTRALAMT DES DEUTSCHEN WETTERDIENST

Central Office of the German Meteorological Service

ACRONYM:

See also D.013

ADDRESS:
6050 OFFENBACH (MAIN),
Frankfurter Str. 135.

Tel.:

AFFIL: regional met. offices.

Title	PERSONNEL	Function
Dr.	Erich Süssenberger	president
Ober-reg-rat	W. Husslein	resp. for AP aspects.

AP aims and actions:
Atmospheric dispersion and exchange processes.
Met. problems in the (regional) smog-warning services.
Meteorology of site surveys (for new industrial plant &c).
Studies of medico-meteorology problems.
Monitoring of radioactivity in atmosphere.

Comments:
Member of VDI Komm. R. der Luft.

D.003 Zentralamt des Deutschen Wetterdienst 12 69

D [redacted]	004	NAT	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	12.69	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: INST. FÜR NICHTPARASITÄRE PFLANZENKRANKHEITEN

Inst. for Non-parasitic Plant Diseases

ACRONYM:

See also

ADDRESS:
1000 BERLIN 33,
Königin-Luise-Str. 19.

Tel.:

AFFIL: Biolog. Bundesanstalt für Land und Forstwirtschaft.

Title	PERSONNEL	Function
Dr.	H-O. Leh	
Prof.Dr.	A. Kloke	
Dr.	G. Schönhard	

AP aims and actions:
Studies of Pb depostions on crops (from vehicles).

Comments:
Member of VDI Komm. R. der Luft.

D.004 Inst. für Nichtparasitäre Pflanzenkrankheiten 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
D [redacted]	005	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 [✓ 3]	[redacted]	S T

NAME: BUNDESANSTALT FÜR MATERIALPRÜFUNG

Federal Material Testing Establishment

ACRONYM: BAM

See also

ADDRESS: 1000 BERLIN 45,
Unter den Eichen 87.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	P. Schimmelwitz	
Prof.Dr	P. Voigtsberger	
Prof.Dr	M. Pfender	
Dr.	K. Damaschke	
Dr.	W. Schrödter	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.005 Bundesanstalt für Materialprüfung (BAM)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
D [redacted]	006	NAT	[✓ A] [✓ B] C D E F	01 02 03 04 [✓ 05]	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	12.69 [redacted]	S T

NAME: PHYSIKALISCHE-TECHNISCHE BUNDESANSTALT

Federal Physical and Technical Institute

ACRONYM: P T B

See also

ADDRESS: 3300 BRAUNSCHWEIG,
Bundesallee.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	M. Kersten	director

AP aims and actions:

Monitors ambient radioactivity.
Concerned with safety (esp. of mechanisms, application of protective devices, etc.).

Comments:

Not much AP activity. Mainly concerned with mechanics (eg. for Weights & Measures approvals).

D.006 Physikalische-Technische Bundesanstalt 12.69

D [redacted] 007 NAT A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BIOLOGISCHE BUNDESANSTALT FÜR LAND- UND FORSTWIRTSCHAFT

Federal Biological Establishment for Agric. and Forestry

ACRONYM:

See also

ADDRESS: 3300 BRAUNSCHWEIG,
Messeweg 11.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	J. Ullrich	Inst. for Botany

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.007 Biologische Bundestanstalt für Land- und Forstwirtschaft

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D [redacted] 009 NAT A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: DEUTSCHES KREBSFORSCHUNGSZENTRUM

German Cancer Research Centre

ACRONYM:

See also

ADDRESS: 6900 HEIDELBERG,
Berliner Strasse 27.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	H. Immich	) Inst. for Documentation,
Prof.Dr.	G. Wagner	) Information & Statistics.
Prof.Dr.	D. Schmähl	Inst. for Exptl. Tumours...

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.009 Deutsches Krebsforschungszentrum

D	[redacted]	016	GOV	A	B	C	D	~~E~~	F	01	02	03	04	05	11	12	13	14	15	21	22	~~23~~	24	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	12.69	[redacted]	S	~~1~~
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: GEWERBEAUFSICHT

Industry Supervision Administration

ACRONYM: G A A

See also D.017 D.020

ADDRESS: Länder capitals and principal towns.

Tel.:

AFFIL: Länder governments (Arbeits- or Innen-ministerium).

Title	PERSONNEL	Function

AP aims and actions:

Responsible for the application of the Gewerbeordnungen (derived from Fed. gov't, but applied by authority of the Land gov't.) to ensure safety of whole factory &c.
Can delegate part of supervision to local TÜV (see D.020) and make use of TÜV for expertise (eg. in calculating stack heights). Also uses Berufsgenossenschaft ... (see D.017) for safety supervision of work areas.

Comments:

One central office in each Land as a department of Land gov't., with branches in principal towns.

D.016 Gewerbeaufsicht

12.69

D	[redacted]	017	ASN	A	B	C	~~D~~	E	F	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	~~L~~	M	S	1	~~2~~	3	12.69	[redacted]	S	~~1~~
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: GEWERBLICHE BERUFSGENOSSENSCHAFTEN

Industrial Safety Assurance Association

ACRONYM:

See also D.016 D.033

ADDRESS:

Tel.:

AFFIL: Actions are supervised by the local Land Ministry (usually the Arbeitsministerium).

Title	PERSONNEL	Function

AP aims and actions:

Responsible for occupational hygiene - inspects safety of equipment and operating conditions.
Used by Gewerbeaufsichtsämter (D.016) for surveillance of working conditions.

Reprints MAK-Werte (MAC Values) developed by Commission of DFG (D.033).

Comments:

Is a 'public legal body' (öffentlich rechtliche).

D.017 Gewerbliche Berufsgenossenschaften

12.69

D [redacted] 018 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S /

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: HAUPTVERBANDES DER GEWERBLICHEN BERUFSGENOSSENSCHAFTEN eV

Union of Industrial Safety Assurance Organisations Inc.

ACRONYM:

See also D.017

ADDRESS: 5300 BONN,
Langwartweg 103.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dir.	D. Hasenclever	)
Dr.	A. Schütz	) Staubforschungsinstitut
Phys.Ing.	W. Coenen	)

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.018 Hauptverbandes der Gewerblichen Berufsgenossenschaften eV

D [redacted] 019 NAT A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S /

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BERGBAU-BERUFSGENOSSENSCHAFT, Silikose Forschungsinstitut

Mines Safety Inspection, Silicosis Research Institute

ACRONYM:

See also D.410 D.412

ADDRESS: 4630 BOCHUM,
Hunscheidstrasse 12.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	W.T. Ulmer	medical dept.
Dr.	W. Walkenhorst	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.019 Bergbau-Berufsgenossenschaft, Silikose Forschungsinstitut

D [redacted]	020	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	12.69	[redacted]	S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: VEREINIGUNG DER TECHNISCHEN ÜBERWACHUNGS-VEREINE eV
Federation of Technical Supervision Associations Inc.

ACRONYM: VdTÜV

See also

ADDRESS: 4300 ESSEN
Rottstrasse 17.

Tel.:

AFFIL: All regional TÜV's.

Title	PERSONNEL	Function
Dir.	G. Wiesenack	
Obering.	G. Hüber	
Obering.	H. Kruppe	

AP aims and actions:
Publishes monthly journal (by VDI-Verlag): "Technische Überwachung"

Comments:
Member of VDI Komm. R. der Luft.

D.020 Vereinigung der Technischen Überwachungs-Vereine eV 12 69

D [redacted]	021	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	12.69	[redacted]	S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: VEREIN DEUTSCHER INGENIEURE: Kommission Reinhaltung der Luft
Association of German Engineers: Commission for Clean Air

ACRONYM: VDI (Luft)

See also D.022

ADDRESS: 4000 DÜSSELDORF,
Graf-Recke Strasse 84.

Tel.: 0211 - 62141

AFFIL:

Title	PERSONNEL	Function
Min.Dir.	H. Stephany	president (of VDI & Kommn)
Dip.Ing.	J. Krämer	head of secretariat (Komm)

Full details of the Kommission, its organisation and staffing, and the work of its expert cttees, are given in the Status Booklet of the Kommission.

AP aims and actions:
Determination of the technology of air conservation, esp. as regards emission abatement and equipment for gas cleaning; definition of limits for the discharge of dust and gases.
Research into the atmos. dispersion of pollutants - principally for the calculation of stack heights.
Research into effects of pollutants on humans, animals, plants and valuables; defn. of air quality limits.
Development of standard procedures for the measurement of pollutant emissions and immissions.
Initiation and coordination of appropriate research work.

Comments:
Is a collection of expert cttees representing the best engineering knowledge in D. Individual members and sponsoring firms.
Publishes "Richtlinie" (recommended codes of practice), some of which are incorporated into regulations.
Has also published "VDI-Handbuch" on all aspects of AP.
Has comprehensive AP documentation; publishes "Selecta" AP abstracts and "Staub-Reinhaltung der Luft".

D.021 Verein Deutscher Ingenieure: Komm. Reinhaltung der Luft (VDI) 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
D [redacted]	022	ASN	[✓ A] [✓ B] C D E F	01 02 03 04 [✓ 05]	[✓ 11] 12 13 [✓ 14] 15	21 [✓ 22] 23 24 25	31 32 33 [✓ 34] 35	[✓ L] M S	[✓ 1] 2 3	12.69	[redacted]	[✓ S] [✓ 7]

NAME: VEREIN DEUTSCHER INGENIEURE: Kommission Lärmminderung

Association of German Engineers: Comm. for Noise Reduction

ACRONYM: VDI (Lärm)

See also D.021

ADDRESS: 4000 DÜSSELDORF,
Graf-Recke Strasse 84.

Tel.: 0211 - 62141

AFFIL:

Title	PERSONNEL	Function
Dr.Ing.	P. Hansen	president of Kommission
Dip.Ing.	Görlich	head of secretariat

Details of the Kommission, its organisation and the work of its expert cttees, are given in the 1968 Annual Report.

AP aims and actions:

Studies of the incidence, effects and reduction of industrial, traffic and domestic noise.
Application of measuring techniques.
Initiation and coordination of appropriate research.

Publication of "Richtlinie" (recommended codes of practice).

Comments:

Is a collection of expert cttees representing the best engineering knowledge in D. Individual members and sponsoring firms.
Has comprehensive documentation.

D.022 Verein Deutscher Ingenieure: Kommission Lärmminderung 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
D [redacted]	029	ASN	[✓ A] B C D E F	01 02 03 04 05	11 12 13 14 [✓ 15]	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	[✓ 1] 2 3	12.69	[redacted]	S [✓ 7]

NAME: FRAUNHOFER-GES. ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG eV

Fraunhofer Society for the Furtherance of Applied Research

ACRONYM:

See also D.030-1 D.032

ADDRESS: 8000 MÜNCHEN,
Prinzregentenstrasse 28.

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Sponsoring research at various research institutes.

Comments:

Much of money comes from DFG (D.032).

D.029 Fraunhofer Gesellschaft 12.69

D [redacted] 030 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: INSTITUT FÜR TECHNISCHE PHYSIK der Fraunhofer Gesellschaft
Institute of Technical Physics of the Fraunhofer Society

ACRONYM: ITP
See also D.029 D.031

ADDRESS: 7000 STUTTGART-DEGERLOCH,
Königsstrássle 70.

Tel.:

AFFIL: Fraunhofer Gesellschaft zur
Förderung der angewandten
Forschung (D.029).

Title	PERSONNEL	Function
Prof.Dr	W. Schüle	
Prof.Dr	H. Reiher	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.030 Institut für technische Physik der Fraunhofer Gesellschaft

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D [redacted] 031 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 12.69 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: INSTITUT FÜR AEROBIOLOGIE der Fraunhofer Gesellschaft
Institue of Atmospheric Biology of the Fraunhofer Society

ACRONYM:
See also D.029 D.030

ADDRESS: 5949 GRAFSCHAFT Ü/SMALLENBERG,
SAUERLAND.

Tel.:

AFFIL: Fraunhofer Gesellschaft zur
Förderung der angewandten
Forschung (D.029).

Title	PERSONNEL	Function
Dr.	K. Bisa	director

AP aims and actions:
Aerobiology; toxicology of aerosols.
Industrial hygiene.
The application of filtration techniques to prevention of AP in closed environments.

Comments:

D.031 Institut für Aerobiologie der Fraunhofer Gesellschaft 12.69

D	[redacted]	032	ASN	~~A~~ B C D E F	01 02 03 04 05	~~11~~ ~~12~~ ~~13~~ ~~14~~ 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	12.69	[redacted] S /
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: * DFG : Komm. zur Erforschung der Wirkungen luftverunrein'r St
DFG : Comm. for Investigating Effects of Air Pollutants

ACRONYM: DFG

See also D.033 D.034

ADDRESS: 5320 BAD GODESBERG,
Kennedy-Allee 40.
Labs at: 6800 MANNHEIM,
Augusta-Anlage 18.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	J. Wüstenberg	chairman
Dip.Phys	A. Köhler	

AP aims and actions:

Organises large regional survey project with permanent measuring stations for wide range of pollutants - gaseous (SO_2 CO NO_x F-cpds), particulates, radioactivity, biological (bacteria, spores, pollen, etc). The DFG sponsors the survey by making industry money available to suitable Research Institutes.

Comments:

* Deutsche Forschungs-Gemeinschaft : German Research Association.

Member of VDI Komm. R. der Luft.

D.032 DFG: Komm. zur Erforschung der Wirkungen luftverunreinigender Stoffe 12.69

D	[redacted]	033	ASN	~~A~~ B ~~C~~ D E F	01 02 ~~03~~ 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	12.69	[redacted] ~~S~~ /
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: * DFG : Komm. zur Prüfung gesundheitsschädlicher Arbeitsstoffe
DFG : Comm. for Investigating Noxious Working Materials

ACRONYM: DFG

See also D.032 D.034

ADDRESS: 5320 BAD GODESBERG,
Kennedy-Allee 40.

Tel.:

AFFIL:

Title	PERSONNEL	Function

Members of Commission include medical and hygiene experts and representatives from industry and the Berufsgenossenschaften (D.017).

AP aims and actions:

Inter alia, develops MAC values * (which are adopted and published by the Bundesmin. für Arbeit... and are reprinted by others, incl. the Berufsgenossenschaften).

* MAK-Werte - Maximale Arbeitsplatzkonzentrationen gesundheitsschädlicher Stoffe. (1966 values published in 'Arbeitsschutz' 8/1966, p 229.)

Comments:

* Deutsche Forschungs-Gemeinschaft : German Research Association.

D.033 DFC : Komm. zur Prüfung gesundheitsschädlicher Arbeitsstoffe 12.69

D	[redacted]	034	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: DFG: Kommission für Verbrennungmaschinen

German Res. Assn: Commission for Internal Combustion Engines

ACRONYM: DFG

See also D.032 D.033

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

D.034 DFG: Kommission für Verbrennungmaschinen

D	[redacted]	035	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	12.69	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: B'VERBAND DER D. IND: Arbeitskreis Industrielle Immissionsfragen.

Union of German Industry: WG on Indust. Polln.

ACRONYM: B D I

See also D.036

ADDRESS:
5000 KÖLN 10,
Habsburger-Ring 2-12.
(Postfach 107).

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr. Jur.	W. Gässler	

AP aims and actions:

Studies implications of proposed legislation and comments to Fed. Mins. of Health and Commerce.

Cooperates in work of IWL (D.036).

Annual mtg. of BDI presents papers on role of industry in society etc.

Also has Study Gp. for Environmental Matters (mainly PR).

Comments:

Mainly a discussion group; not especially important in AP.

Member of VDI Komm. R. der Luft.

D.035 B'verband der d. Ind: Arbeitskreis Industrielle Immissionsfragen 12.69

D [redacted]	036	ASN	~~A~~ B C D E F	01 ~~02~~ ~~03~~ ~~04~~ ~~05~~	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ ~~33~~ ~~34~~ ~~35~~	~~L~~ M S	1 ~~2~~ 3	12.69	[redacted] / /
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: INST. f. GEWERBLICHE WASSERWIRTSCHAFT u. LUFTREINHALTUNG eV
Inst. for Indust. Water Economy and Air Conservation Inc.

ACRONYM: I W L
See also D.035

ADDRESS: 5000 KÖLN,
Hohenzollernring 38.

Tel.: 0221 - 21 04 05

AFFIL: A foundation of BDI (D.035).

Title	PERSONNEL	Function
	K-H. Teller	president
Dr. Ing.	J. Bernert	i/c of AP
+ 3P/5NP in AP.		

AP aims and actions:

Practical measurements of wide variety of industrial emissions, with research into specific problems (eg. AP from paint spraying, odours from intensive animal rearing, total C in air).

Publishes monthly journal: "Wasser, Luft und Betrieb" as independent medium for own research and that of others (incl. Govt. depts.).

Comments:

Two groups: WP and AP (smaller).
Is practical partner of BDI.

Money from members for work done.
Any industry or ind. assn. may join.

Member of VDI Komm. R. der Luft.

D.036 Inst. für Gewerbliche Wasserwirtschaft u. Luftreinhaltung eV (IWL) 12.69

D [redacted]	037	ASN	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 ~~04~~ 05	11 12 13 14 ~~15~~	21 22 23 24 25	31 32 ~~33~~ ~~34~~ 35	L M ~~S~~	1 ~~2~~ 3	12.69	[redacted] S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: VEREIN DEUTSCHER EISENHÜTTENLEUTE; Betriebsforschunganstalt
Assn. of German Iron Works Experts; Industrial Research Estab.

ACRONYM: VDEh
See also

ADDRESS: 4000 DÜSSELDORF 1,
Breite Str. 27.
(Postfach 8209)

Tel.:

AFFIL: Iron and steel companies

Title	PERSONNEL	Function
Dip.Ing.	Kegel	man'g. dir. of Assn.
Dr. Ing.	K. Guthmann	technical secretary
Dr. Ing.	K.H.Mommertz	director of Anstalt

AP aims and actions:

Coordinates research and investigation into all problems and abatement techniques for AP in the iron and steel industry.

Work undertaken by member companies; has no facilities of own.

Publishes results in "Stahl und Eisen".

Comments:

Work prog. organised by Wkg.Gp. of member co's.

Member of VDI Komm. R. der Luft.

D.037 Verein D. Eisenhüttenleute: Betriebsforschunganstalt (VDEh) 12.69

D [redacted]	038	ASN	A [✓ B] C D E F	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: DGMK * : Arbeitsgruppe Abgase von Verbrennungsmotoren

DGMK Working Group on Exhaust Gases from I/C Engines

ACRONYM: DGMK

See also

ADDRESS: 2000 HAMBURG 1,
Steindamm 71.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	Luther	chairman
Prof.Dr.	C. Zerbe	

AP aims and actions:

Comments:

* Deutsche Gesellschaft für Mineralölwissenschaft und Kohlechemie - German Society for Petroleum Science and Coal Chemistry.

Member of VDI Komm. R. der Luft.

D.038 DGMK: Arbeitsgruppe Abgase von Verbrennungsmotoren

D [redacted]	039	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: VERBAND DER AUTOMOBIL-INDUSTRIE eV

Federation of the Automobile Industry Inc.

ACRONYM: VDA

See also

ADDRESS: 6000 FRANKFURT/M,
Westendstrasse 61.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dip. Ing.	D. Matthes	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.039 Verband der Automobil-Industrie eV (VDA)

D	[redacted]	040	ASN	A	[✓ B]	C	D	E	[✓ F]	01	02	03	04	05	11	12	13	14	[✓ 15]	21	22	23	24	25	[✓ 31]	32	33	34	35	L	[✓ M]	S	1	[✓ 2]	3	12.69	[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: MINERALÖL WIRTSCHAFTS VERBAND

Petroleum Industry Association

ACRONYM: MWV

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Development and presentation of oil industry opinions on AP matters.

Comments:

Has Air Conservation Cttee (Ausschuss Reinhaltung der Luft).

Supports work of VDI Kommission.

D.040 Mineralöl Wirtschafts Verband (MWV) 12.69

D	[redacted]	041	NAT	A	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	1	2	3		[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: BUNDESBAHN-ZENTRALAMT

Federal Railways, Central Administration

ACRONYM: DB

See also

ADDRESS: 4950 MINDEN,
Postfach 1060.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dip.Ing	U. Froböss	

AP aims and actions:

Comments:

Member of VDI. Komm. R. der Luft.

D.041 Bundesbahn-Zentralamt

D [redacted]	042	SOC	A [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	1 2 [✓ 3]	12.69	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: DEUTSCHE GESELLSCHAFT FÜR HYGIENE UND MIKROBIOLOGIE eV
German Society for Hygiene and Microbiology Inc.

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Discussion of all aspects of hygiene, including AP, at national and local meetings.

Comments:

Is a scientific society of medical experts.

D.042 Deutsche Gesellschaft für Hygiene und Mikrobiologie 12.69

D [redacted]	043	ASN	[✓ A] [✓ B] C D E [✓ F]	01 [✓ 02] 03 [✓ 04] 05	11 12 13 [✓ 14] 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	12.69	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: INSTITUT FÜR ZIEGELFORSCHUNG eV
Brick Research Institute

ACRONYM:

See also

ADDRESS: 4300 ESSEN-KRAY,
Am Zehnthof 197.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dip.Ing	R.Pels-Leusden	

AP aims and actions:

General studies of emissions from brickworks.
Specific surveys of SO_2 emissions from kilns; comparison of F emissions from coal- and oil-fired kilns.

Comments:

Member of VDI Komm. R. der Luft.

D.043 Institut für Ziegelforschung eV 12.69

D [redacted] 044 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 12.69 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: FORSCHUNGSINSTITUT DER ZEMENTINDUSTRIE
Research Institute of the Cement Industry

ACRONYM:

See also

ADDRESS: 4000 DÜSSELDORF,
Tannenstr. 2.

Tel.:

AFFIL.: Verein Deutscher Zementwerke eV.

Title	PERSONNEL	Function
Obering.	G. Funke	
Dr.Ing.	S. Sprung	
Dr.	W. Köhler (of the Verein) speaks for the Industry in the VDI Kommission...	

AP aims and actions:
Studies of dust release at various stages in the cement manufacturing process.
Design of dust-measuring apparatus.

Comments:
Member of VDI Komm. R. der Luft.

D.044 Forschungsinstitut der Zementindustrie 12.69

D [redacted] 045 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: STEINKOHLENBERGBAUVEREIN
Hard Coal Mining Association

ACRONYM:

See also D.055

ADDRESS: 4300 ESSEN-KRAY,
Prillendorfer Str. 351.

Tel.:

AFFIL.: Bergbau Forschung GmbH

Title	PERSONNEL	Function
Dip.Ing.	K. Haagen	) Hauptstelle für Staub-
Dr.Ing.	H. Breuer	) und Silikosebekämpfung.
Dip.Phys	J. Stuke	)

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.045 Steinkohlenbergbauverein

D [redacted] 046 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VEREIN DEUTSCHER GIESSEREIFACHLEUTE eV
Association of German Foundry Professionals Inc.

ACRONYM:

See also

ADDRESS: 4000 DÜSSELDORF,
Sohnstrasse 70.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Dr.Ing.	G. Engels	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.046 Verein Deutscher Giessereifachleute eV

D [redacted] 047 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: GEMEINSCHAFTSAUSSCHUSS VERZINKEN eV
Cooperative Galvanizing Board Inc.

ACRONYM:

See also

ADDRESS: 4000 DÜSSELDORF,
Beethovenstrasse 12.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Obering.	K. Lewus	

AP aims and actions:

Comments:
Member of VDI Komm. R. Luft.

D.047 Gemeinschaftsausschuss Verzinken eV

D [redacted]	048	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: VER. d. TEER u. ASPHALTMAKADAM HERSTELLENDEN FIRMEN WEST eV

Assn. of Western Tar and Asphaltmacadam Mfg. Firms Inc.

ACRONYM:

See also

ADDRESS: 5000 KÖLN-LINDENTHAL,
Weyertal 80.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dip.Ing	K. Haufe	

AP aims and actions:

Comments: Member of VDI Komm. R. der Luft.

D.048 Ver. d. Teer u. Asphaltmakadam herstellenden Firmen West eV

D [redacted]	049	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ZENTRALINNUNGSVERBAND d. SCHORNSTEINFEGER-HANDWERKS

Central Guild of the Chimney Sweeping Trade

ACRONYM:

See also

ADDRESS: 3160 LEHRTE,
Ernst-Reuter Str. 2.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Ing.	W. Gareis	
Ing.	K. Hornbostel	

AP aims and actions:

Comments: Member of VDI Komm. R. der Luft.

D.049 Zentralinnungsverband des Schornsteinfeger-Handwerks

D | 050 | ASN | A B C D E F | 01 02 03 04 05 | 11 12 13 14 15 | 21 22 23 24 25 | 31 32 33 34 35 | L M S | 1 2 3 | | S T
Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: GESELLSCHAFT FÜR KERNFORSCHUNG mbH
Society for Nuclear Research Ltd.

ACRONYM:

See also

ADDRESS: 7500 KARLSRUHE 1,
Postfach 3640.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.Ing.	W. Hübschmann	dept. for Radiation Protection and Safety.

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.050 Gesellschaft für Kernforschung mbH

D | 051 | ASN | A B C D E F | 01 02 03 04 05 | 11 12 13 14 15 | 21 22 23 24 25 | 31 32 33 34 35 | L M S | 1 2 3 | | S T
Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: ERDÖLCHEMIE GmbH
Petrochemistry Co. Ltd.

ACRONYM:

See also

ADDRESS: 4047 DORMAGEN,
Postfach 1180.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	O. Jübermann	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.051 Erdölchemie GmbH

D [redacted]	052	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: BUNDESVERBAND ÖL- UND GASFEUERUNGEN
Federal Association for Oil and Gas Firing.

ACRONYM:

See also

ADDRESS: 7410 REUTLINGEN,
Mozartstrasse 60.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Ing.	Gans	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.052 Bundesverband Öl- und Gasfeuerungen

D [redacted]	053	NAT	[✓ A] B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] [✓ 25]	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	12.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: DEUTSCHE VERSUCHSANSTALT FÜR LUFT- UND RAUMFAHRT eV
German Research Institute for Air and Space Travel Inc.

ACRONYM:

See also

ADDRESS: 8030 OBERPFAFFENHOFEN,
Post Wessling.
(Flughaven München-Riem).

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	H. G. Müller	director of Inst. of Atmospheric Physics.

AP aims and actions:
Measurements of atmospheric opacity and radioactivity, using met. towers.

Comments:

D.053 Deutsche Versuchsanstalt für Luft und Raumfahrt eV 12.69

D [redacted]	054	ASN	~~A~~	B	C	D	E	~~F~~	01	02	03	04	05	11	~~12~~	~~13~~	14	15	21	~~22~~	23	24	~~25~~	31	32	~~33~~	34	35	L	M	S	1	2	3	12.69	[redacted]	S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: DEUTSCHE GESELLSCHAFT FÜR CHEMISCHES APPARATEWESEN eV
German Society for Chemical Equipment Companies Inc.

ACRONYM: DECHEMA

See also

ADDRESS: 6000 FRANKFURT/MAIN 97,
Theodor-Heuss-Allee 25,
(P.O.B.97.0146).

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	K. Kirchner	

AP aims and actions:

Instrumentation development (SO_2) and evaluation.
Efficiency of flue gas cleaning equipment.
Research into gas reaction kinetics - esp. of odours.
Effects of light on effluent gas reactions.
Investigations of damage by ambient pollution.

Comments:

D.054 Deutsche Gesellschaft für Chemisches Apparatewesen eV 12.69

D [redacted]	055	ASN	~~A~~	B	C	D	E	~~F~~	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	~~33~~	34	35	L	M	~~S~~	1	2	~~3~~	12 69	[redacted]	S	~~T~~
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: BERGBAU-FORSCHUNG GmbH
Mining Research Co.Ltd.

ACRONYM:

See also D.045

ADDRESS: 4300 ESSEN-KRAY,
Frillendorfer Str. 351.

Tel.:

AFFIL: Steinkohlenbergbauverein
(D.045)

Title	PERSONNEL	Function
Prof.Dr.	W. Peters	
Dr.	K. F. Luft	
Priv.Dz.	H. Jüntgen	
	K. Knoblauch	
	M. Kruel	

AP aims and actions:

Studies and development of flue gas desulphurisation processes.

Comments:

Member of VDI Komm. R. der Luft.

D.055 Bergbau-Forschung GmbH 12.69

D [redacted] 056 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VEREINIGUNG DER GROSSKESSELBESITZER eV

Association of Large Boiler Owners Inc.

ACRONYM: VGB

See also

ADDRESS: 4300 ESSEN,
Kurfürstenstrasse 27.
(Postfach 1791).

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Dip.Ing.	A. Kantner	chief engineer
Dr. Ing.	O. Schwarz	director

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.056 Vereinigung der Grosskesselbesitzer eV (VGB)

D [redacted] 057 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VEREINIGUNG DEUTSCHER ELEKTRIZITÄTSWERKE

Association of German Electricity Works

ACRONYM: VDEW

See also

ADDRESS: 6000 FRANKFURT/M 70,
Stresemannallee 23.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Dip.Ing	W. Mackenthun	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.057 Vereinigung Deutscher Elektrizitätswerke

D [redacted]	058	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: HAUPTVERBAND DER DEUTSCHEN BAUINDUSTRIE eV, Abt. Strassenbau

Union of the German Building Industry Inc., Road Bldg. Dept.

ACRONYM:

See also

ADDRESS: 6000 FRANKFURT/M,
Friedrich-Ebert-Anlage 38.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dip.Ing	E. Schleicher	

AP aims and actions:

Control of dust and fumes from road-stone plants and from asphalt mixing plants.

Comments:

Member of VDI Komm. R. der Luft.

D.058 Hauptverband der Deutschen Bauindustrie eV (Roads Dept.)

D [redacted]	059	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: TREUHANDSTELLE DER ZELLSTOFF- UND PAPIERINDUSTRIE eV

Trust Company of the Cellulose and Paper Industries Inc.

ACRONYM:

See also

ADDRESS: 5300 BONN,
Koblenzer Str. 55.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.Ing.	H. Niethammer	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.059 Treuhandstelle der Zellstoff- und Papierindustrie eV

D [redacted] 060 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BUNDESVERBAND NATURSTEIN.INDUSTRIE
Federal Association of the Natural Stone Industry

ACRONYM:
See also

ADDRESS: 5300 BONN,
Buchstrasse 22.

Tel.:
AFFIL.:

Title	PERSONNEL	Function
Dip.Ing	K-H. Plock	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.060 Bundesverband Naturstein-Industrie

D [redacted] 061 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BUNDESVERBAND DER DEUTSCHEN KALKINDUSTRIE eV
Federal Association of the German Lime Industry Inc.

ACRONYM:
See also

ADDRESS: 5000 KÖLN 5,
Kaiser-Wilhelm-Ring 26.

Tel.:
AFFIL.:

Title	PERSONNEL	Function
Prof.Dr.	W. Piepenburg	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.061 Bundesverband der Deutschen Kalkindustrie eV

D [redacted]	062	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: DEUTSCHE FORSCHUNGSGES. f. BLECHVERARBEITUNG u. OBERFLÄCHEN'G

German Research Association for Metal Rolling and Plating Inc

ACRONYM:

See also

ADDRESS: 7000 STUTTGART-MÖHRINGEN,
Rohrer Strasse 9.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	W. Ulrich	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.062 D. Forschungsgesell. f. Blechverarbeitung usw...

BERLIN

D	101	REG	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: LANDESINSTITUT FÜR ARBEITSMEDIZIN
Land Institute for Occupational Hygiene

ACRONYM:

See also

ADDRESS: 1000 BERLIN 19,
Soorstrasse 83.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.Med.	G. Weiss	

AP aims and actions:

Comments:

D.101 Landesinstitut für Arbeitsmedizin, Berlin

D [redacted]	103	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	12.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: TECH.U.BERLIN, Inst.f.Mess- u. Regelungstechnik

" Inst.f.Measurement and Control Techniques

ACRONYM:

See also

ADDRESS: 1000 BERLIN 15,
Kurfürstendamm 195.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	Th. Gast	director

AP aims and actions:

Development of instruments and techniques for measuring and sizing dust and particulates.

Comments:

D.103 Tech.U.Berlin, Inst.f.Mess- u. Regelungstechnik 12.69

D [redacted]	104	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	12.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: TECH.U.BERLIN, Inst.f.Aufbereitung

" Inst.f.Preparation of Materials

ACRONYM:

See also

ADDRESS: 1000 BERLIN 12,
Hardenbergstrasse 35.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	E. von Szantho	director

AP aims and actions:

Investigation of particle agglomeration in electrical precipitators

Comments:

Member of VDI Komm. R. der Luft.

D.104 Tech.U.Berlin, Inst.f.Aufbereitung 12.69

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
D	105	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	Y 2 3	12 69	S T

NAME: FREIE U.BERLIN, Inst.f.Theoretische Meteorologie
" Inst.f.Theoretical Meteorology

ACRONYM:

See also

ADDRESS: 1000 BERLIN 33,
Thielallee 49,

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	H. Fortak	director

AP aims and actions:
Mathematics of pollution dispersion (esp. SO_2) in areas of industrial emissions. (Preliminary study of the Bremen area completed; typed copies available from Inst.)

Comments:
Member of VDI Komm. R. der Luft.

D.105 Freie U.Berlin, Inst.f.Theoretische Meteorology 12.69

HAMBURG

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date
D	201	RED	A [✓ B] C [✓ D] E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	12.69

NAME: UNTERSUCHUNGSANSTALT FÜR STÄDTEHYGIENE, HAMBURG
Municipal Hygiene Evaluation Establishment, Hamburg

ACRONYM:

See also

ADDRESS: 2000 HAMBURG 6,
Neuer Kamp 25.I.
(Abt. für Luft u. Wohnunghygiene)
(Dept. for Air and Domestic Hyg.)
Tel.: 0411 - 349101

AFFIL.: Gesundheitsbehörde (Health Authority)(=Ministry) of the 'Land' of Hamburg.

Title	PERSONNEL	Function
Prof.Dr.	E. Effenberger	director of Anstalt.
Dr.	K. Gräfe	head of AP Abteilung.
	• 8P/5NP on AP	

AP aims and actions:

Advises on AP matters in 'Land' of Hamburg, including AP implications and requirements for new installations and licence applications.

Undertakes regular SO_2 and particulates survey and sporadic measurements of other pollutants in urban areas of Hamburg.

Comments:

Anstalt has 5 Abteilungen (depts): Water, Sewage, Occup.Hyg., AP, and Radioactivity.

Control approach is essentially pragmatic and non-legalistic.

Member of VDI Komm. R. der Luft.

D.201 Untersuchungsanstalt für Städtehygiene, Hamburg 12.69

D [redacted]	202	REG	~~A~~ B C D E F	01 02 03 04 ~~05~~	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	12.69	[redacted] ~~S~~ T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: METEOROLOGISCHE OBSERVATORIUM HAMBURG

Hamburg Meteorological Observatory

ACRONYM:

See also D.003

ADDRESS: 2000 HAMBURG 13,
Moorweidenstrasse 14.

Tel.:

AFFIL: Deutscher Wetterdienst

Title	PERSONNEL	Function
Prof.Dr.	R. Schulze	director
Dr.	K. Kohlsche	resp. for AP work

AP aims and actions:

Measurement of atmospheric turbulence from radio masts.
Studies of aerosols of vegetal origin.

Comments:

D.202 Meteorological Observatorium Hamburg 12.69

D [redacted]	203	REG	~~A~~ B C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	12.69	[redacted] S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: STAATSINSTITUT FÜR ANGEWANDTE BOTANIK

State Institute for Applied Botany

ACRONYM:

See also

ADDRESS: 2000 HAMBURG 36,
Bei den Kirchhöfen 14.

Tel.:

AFFIL: Univ. of Hamburg

Title	PERSONNEL	Function
Prof.Dr.	U. Ruge	director
Dr.	K. Garber	head of research station

AP aims and actions:

Studies of the effects of pollutants on plants.
Survey of F in Hamburg area (in cooperation with Hygiene Inst. - D.201).

Comments:

Dr. Garber has written a book on his work on plants: "Luftverunreinigung und ihre Wirkungen" (Air Pollution and its Effects) Geb.Borntraeger,Berlin, 1967.

Member of VDI Komm. R. der Luft.

D.203 Staatsinstitut für Angewandte Botanik 12.69

D [redacted]	205	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3		[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.HAMBURG, Pharmakologisches Inst.
" Pharmacology Inst.

ACRONYM:

See also

ADDRESS: 2000 HAMBURG 20,
Martinistrasse 52.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	G. Malorny	director

AP aims and actions:

Animal studies of effects of low CO on physical and psychic behaviour, including morphological changes in tissues.

Comments:

Member of VDI Komm. R. der Luft.

D.205 U.Hamburg, Pharmakologisches Inst. 12.69

D	233	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	12 69		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.KIEL, Inst.f.Bioklimatologie u. Meeresheilkunde

" Inst.f.Bioclimatology and Sea-therapy

ACRONYM:

See also

ADDRESS: 2280 WESTERLAND/SYLT.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Prof.Dr	U. Jessel	director of meas'g station

AP aims and actions:

Operates one of the OECD remote stations and one of the DFG chain of stations (D.032). Studies of atmospheric Cl and radioactivity.

Comments:

Member of VDI Komm. R. der Luft.

D.233 U.Kiel, Inst.f.Bioklimatologie u. Meeresheilkunde 12.69

NIEDERSACHSEN

D [redacted]	301	REG	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: NIEDERSÄCHSISCHES LANDESVERWALTUNGSAMT
Lower Saxony Land Management Administration

ACRONYM:

See also

ADDRESS: 3000 HANNOVER,
Bertastrasse 4.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	F. Bister	) Dept. of Occupational and
Dr.Med	G. Klavis	) Industrial Hygiene.

AP aims and actions:

Comments:

D.301 Niedersächsisches Landesverwaltungsamt

D	[redacted]	302	ASN	A	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	1	2	3		[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: TECHNISCHER ÜBERWACHUNGS-VEREIN HANNOVER eV
Technical Supervision Association Inc. of Hannover

ACRONYM: TÜV-Hannover
See also D..020

ADDRESS: 3000 HANNOVER-WÜLFEL,
Loccumer Str. 63.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Obering.	F. Mühlhausen	
Obering.	P. Schulz	

AP aims and actions:

Comments:

D.302 Technischer Überwachungs-Verein Hannover eV

D	[redacted]	303	ACD	[✓ A]	[✓ B]	C	D	E	F	01	02	03	04	05	11	[✓ 12]	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	[✓ S]	1	[✓ 2]	3	12.69	[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: TIERÄRZTLICHE H'S. HANNOVER, Klinik f. Rinderkrankheiten
Veterinary Training Coll. " Clinic for Cattle Diseases

ACRONYM:
See also

ADDRESS: 3000 HANNOVER,
Bischofsholer Damm 15.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	G. Rosenberger	director

AP aims and actions:
Studies of cattle fluorosis.

Comments:

D.303 Tierarztliche H's Hannover, Klinik f. Rinderkrankheiten 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
D	304	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	12.69	S	T

NAME: TIEREARZTLICHE H'S HANNOVER, Inst.f.Pathologie
Veterinary Training Coll. " Inst.f.Pathology

ACRONYM:

See also

ADDRESS: 3000 HANNOVER,
Bischofsholer Damm 15.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	L-C. Schulz	director
Prof.Dr.	G. Trautwein	--now at Tierslygiensld Institut, Freiburg (D.700)
Prof.Dr	P. Cohrs	
	Knosel	at Env. (B 703) 1969 with Kopp
	Witte	

AP aims and actions:
Effects of particulates and gases on animal health.
Effects of cement dust and of fluorine.

Comments:
Represented on VDI Komm.Reinhaltung der Luft (D.021).

D.304 Tierearztliche H's Hannover, Inst.f.Pathologie 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
D	305	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 [✓ 33] 34 35	L M [✓ S]	1 2 [✓ 3]	12.69	S	T

NAME: TECH.U.HANNOVER, Inst.f.Mechanik
" Inst. for Mechanics

ACRONYM:

See also

ADDRESS: 3000 HANNOVER,
Welfengarten 1.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	E. Pestel	
Prof.Dr	O. Mahrenholtz	
	Kliisener	working with 306/307 on cat red of auto exh.

AP aims and actions:
Wind tunnel tests of high buildings for stack height determination in urban areas.
Aerodynamics and dust precipitation.

Comments:
Member of VDI Komm. R. der Luft.

D.305 Tech.U.Hannover, Inst.f.Mechanik 12.69

D [redacted] 306 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 12 69 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: TECH.U.BRAUNSCHWEIG, Inst.f.Kolbenmaschinen
" Inst.f.Piston Engines

ACRONYM:

See also

ADDRESS: 3300 BRAUNSCHWEIG, *
Langer Kamp 6.
* Brunswick

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	K.Löhner	director
Prof.Dr	H. Müller	

AP aims and actions:

Effects of mixture preparation and operating conditions on vehicle exhaust gas composition; air injection; catalytic detoxing.

Development of new instrumentation (esp. NO_x)

Comments:

Represented on VDI Komm. R der Luft (D.021).

D.306 Tech.U.Braunschweig, Inst.f.Kolbenmaschinen 12.69

D [redacted] 307 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 12.69 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: TECH.U.CLAUSTHAL, Inst.f.Chem.Tech. und Brennstofftechnik
" Inst.f.Chem.Technol. and Fuel Technology

ACRONYM:

See also

ADDRESS: 3392 CLAUSTHAL-ZELLERFELD,
Erzstrasse 18.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	H. Luther	director
Dr.	H. H. Oelert	
+ 3P		

AP aims and actions:

Measurement and investigation of AP, urban and residential. Kinetics of smog formation.

Vehicle exhaust gas analysis; catalytic and other detoxing systems.

Development of European vehicle emission test cycle.

Instrument/method development (esp. NO_x)

Comments:

Has advised Fed. Health Ministry.

Publishes extensively (in Erdöl u. Kohle; Staub).

Member of VDI Komm. R. der Luft.

Undertakes some work on commission (at least one gov't program - smog)

D.307 Tech.U.Clausthal, Inst.f.Chem.Tech.u.Brennstofftechnik 12.69

HESSEN

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date
D [redacted]	352	GOV	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	[redacted] S T

NAME: HESSISCHES MINISTERIUM FÜR LANDWIRTSCHAFT UND FORSTEN
Hessen Ministry of Agriculture and Forests

ACRONYM:

See also

ADDRESS: 6200 WIESBADEN,
Schlossplatz 2.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr	K-F. Wentzel	resp. for state forests

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.352 Hessisches Ministerium für Landwirtschaft und Forsten

D		353	ASN	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3			S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: TECHNISCHES ÜBERWACHUNGSAMT KASSEL

Technical Supervision Department, Kassel

ACRONYM: TÜA-Kassel

See also

ADDRESS: 3500 KASSEL,
Ludwig-Mond Str. 33b.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Ober-gewerbe-rat	F. Iffert	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.353 Technische Überwachungsamt Kassel

D		354	ACD	[✓ A] [✓ B] C [✓ D] E F	01 02 03 04 [✓ 05]	[✓ 11] [✓ 12] 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	[✓ 1] 2 3	12.69		S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: MAX-PLANCK Inst. f. Biophysik

" " Biophysics

ACRONYM:

See also

ADDRESS: 6000 FRANKFURT (Main),
Kennedy Allee 70.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Prof.Dr	Boris Rajewsky	director (now retired?)

AP aims and actions:

Measurements of radioactivity and fall-out (leading to development of TLV's).
Studies of the physical and biological effects of AP.

Comments:

D.354 Max-Planck Inst. f. Biophysik 12.69

D [redacted]	355	ACD	~~A~~ ~~B~~ C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ ~~25~~	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	12.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.FRANKFURT/M, Inst.f.Meteorologie u. Geophysik
" Inst. f. Meteorology and Geophysics

ACRONYM:

See also

ADDRESS: 6000 FRANKFURT (Main),
Feldbergstrasse 47.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	H. Berckhemer	geophysics
Prof.Dr	H. W. Georgii	meteorology
	D. Jost	

AP aims and actions:

Atmospheric chemistry and scavenging of pollutants in various large-area weather conditions.
SO_x NO_x CO HC NH_3 etc in urban areas; atmospheric CO_2.
Vertical distribution of trace gases and aerosols in the atmosphere; measurements from aircraft.

Comments:

In the forefront of activities in this field.
Member of VDI Komm. R. der Luft.

D.355 U.Frankfurt/M, Inst.f.Meteorologie u. Geophysik 12.69

D [redacted]	356	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	12.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: TH DARMSTADT, Institut für Meteorologie
" Meteorological Institute

ACRONYM:

See also

ADDRESS: 6100 DARMSTADT,
Hochschulstrasse 1.

Tel.: 06151 - 85 21 70

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	F. Wippermann	head of institute.
Prof.Dr	W. Klug	
Dr.	G. Manier	

AP aims and actions:

Theory of dispersion and plume rise; stack height calculations; relation between concentration and deposition of particulates; comparison of different dust counting instruments.

Geiert: "Muhlfeld ab Darnstadt a cat detoxing"
(D.307)

Comments:

Centrally involved in development of stack-height calculation methods adopted in the VDI Richtlinie.
Member of VDI Komm. R. der Luft.

D.356 TH Darmstadt. Institut für Meteorologie 12.69

D [redacted] 257 IND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 12.69 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: FARBWERKE HOECHST AG

ACRONYM: Hoechst

See also

ADDRESS: 6230 FRANKFURT/M-HOECHST.

Tel:

AFFIL:

Title	PERSONNEL	Function
Dr.	K-H. Trobisch	resp. for AP
Dr.	J. Scholz	occupational toxicologist
Dr.	W. Weigand	" "

AP aims and actions:

Measurements of effluent gases from chemical plant, and techniques for this.

Long-term studies of effects of gaseous pollutants on plants.

Comments:

Supports chem.industry through BDI (D.035).

Member of VDI Komm. R. der Luft.

D.257 Farbwerke Hoechst AG 12.69

NORDHEIN - WESTFALEN

D	[redacted]	401	GOV	A ~~B~~ ~~C~~ D ~~E~~ F	01 02 03 04 05	11 12 13 14 15	~~21~~ 22 ~~23~~ 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	12.69	[redacted]	~~S~~ ~~1~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: ARBEITS- UND SOZIALMINISTERIUM DES LANDES NORDRHEIN-W'FALEN
Min. of Labour & Soc.Affairs, North-Rhine Westphalia

ACRONYM:

See also D.402

ADDRESS: 4000 DÜSSELDORF 1,
Horionplatz 1.

Tel.: 0211 - 8351

AFFIL:

Title	PERSONNEL	Function
Min.Dir,	K.Boisserée	
L d.Min,	F.J.Dreyhaupt	
Min.Rat,	F.Oels	

* concerned with AP.

AP aims and actions:

Responsible for all industrial AP controls in Land (ie, application of Fed. Gewerbeordnung and own Immissionsschutzgesetz) and for coordinating actions of other Land Mins. concerned with AP.

Supervises 23 Gewerbeaufsicht (factory inspectorate) offices in NRW.

Supervises Landesanstalt...(D.402).

Subsidises abatement R & D.

Has established Landesbeirat (advisory cttee) to advise and inform municipal authorities on AP control matters.

Comments:

Is at centre of the most active AP control structure in D.

Member of VDI Komm. R. der Luft.

D.401 Arbeits- u. Sozialministerium, Nordrhein-Westfalen 12.69 ©

D [redacted] 402 REC ~~A~~ ~~B~~ C ~~D~~ E F 01 ~~02~~ ~~03~~ ~~04~~ ~~05~~ ~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ 21 ~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~L~~ M S ~~1~~ 2 3 12.69 [redacted] ~~S~~ ~~T~~
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LANDESANSTALT FÜR IMMISSIONS- UND BODENNUTZUNGSSCHUTZ, NRW
Land Establishment for Air and Land Conservation, NRW

ACRONYM: L I B
See also D.401

ADDRESS: 4300 ESSEN-BREDENEY,
Wallneyer Str. 6.

Tel.: 02141 - 79951

AFFIL: Arbeits....min. of NRW (D.401)

Title	PERSONNEL	Function
Prof.Dr.	O. Hettche	director
Ltd.Reg.	H. Stratmann	
Dr.	H. Tack	(Organisation chart in Blue Book, p51.)
Dr.	B. Wohlrab	
Ltd.Reg.	M. Buck	
Reg.Dir.	W. Brocke	
total	staff 450	

AP aims and actions:
Makes surveys and reports of general and specific pollution in Land NRW for public authorities, courts, etc.
Operates Ruhrgebiet smog warning system.
Studies instrumentation and techniques for wide variety of ambient pollutants.
Studies effects of AP on health, crops, forestry. etc.
Assessment of abatement methods (incl. odours).
Documentation of literature. Publishes widely.
Organises training courses for students and others.

Comments:
Most of funds from Land Arbeitsmin.
Cooperates closely with WaBoLu (D.-002, 406) and VDI (D.021).

Member of VDI Komm. R. der Luft.

Dr. Hettche retires mid-70.

D.402 Landesanstalt für Immissions- u. Bodennutzungsschutz, NRW (LIB) 12.69

D [redacted] 403 REC A B C ~~D~~ E F 01 02 03 04 05 11 12 13 14 15 21 22 23 ~~24~~ 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 12.69 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: WETTERAMT ESSEN
Meteorological Office, Essen

ACRONYM:
See also D.003 D.402

ADDRESS: 4300 ESSEN-BREDENEY,
Wallneyer Str. 10.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Ltd.Reg.	H. Klug	

AP aims and actions:
Assists LIB (D.402) in operation of smog warning system for Ruhrgebiet.

Comments:
Dr. H. Klug should not be confused with Prof. W. Klug (Inst. of Met., Darmstadt - D.356).

Members of VDI Komm. R. der Luft.

D. 403 Wetteramt Essen 12.69

D [redacted]	404	ASN	~~A~~ ~~B~~ C ~~D~~ ~~E~~ F	~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	12.69	[redacted] ~~S~~ ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: RHEINISCH-WESTFÄLISCHER TECHNISCHER ÜBERWACHUNGS-VEREIN eV*

Technical Supervision Association Inc. of Rhine-Westphalia

ACRONYM: TÜV-Essen

See also D.020

ADDRESS: 4300 ESSEN 1,
Steubenstrasse 53.
(Postfach 1718)

Tel.: 0211 - 28 50 81

AFFIL: Fed. of TÜV's (D.020)

Title	PERSONNEL	Function
Dr.Ing.	F.Dümmler	tech. director
Dip.Ing.	M.Jansen	asst. tech. director
Dip.Ing.	E.Hänel	Kraftfahrwesen (vehicles)
Dip.Ch.	H.W.Thönes	)Wärmetechnik..Nachbarschutz
Dr.	T.Gilbert	)Nachbarschutz (conservation

(see Annual Report for full organisation)
20-25 concerned with AP

AP aims and actions:

Surveillance of industrial operations for conformity to Gewerbeordnung para.16 (see Text); also noise & vibr'n.

Development of techniques and criteria for solid and gaseous pollutants in industrial effluent gases and in ambient air.

Study of atmospheric dispersion of effluent gases.

Development of techniques for evaluating vehicle exhaust gases, and testing detoxing devices.

Prepares expert opinions.

Comments:

Is largest and most active TÜV.
Member of VDI Komm. R. der Luft.
See Text for explanation of role.

* Name changed end-69 from "Technischer Überwachungs-Verein Essen eV".

D.404 Rheinisch-Westfälischer Technischer Überwachungs-Verein eV 12.69

D [redacted]	405	REG	~~A~~ B C ~~D~~ E F	01 02 03 ~~04~~ 05	~~11~~ 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	12.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: HYGIENE-INSTITUT DES RUHRGEBIETS

Hygiene Institute of the Ruhr Area

ACRONYM:

See also

ADDRESS: 4650 GELSENKIRCHEN,
Rotthauser Strasse 19.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof. Dr.	J. Wüstenberg	director
Prof. Dr.	C. Primavesi	

AP aims and actions:

Research into health effects of AP, incl. effects of reduction in solar radiation on the health of children.

Surveys of particulates from coal and iron in the area.

Supported DFG's 18-station survey.

Comments:

More active some years ago (under Dr. Hoffmann(+)).

Dr. Primavesi has published work on on effects of CO on health.

Member of VDI Komm. R. der Luft.

D.405 Hygiene-Institut des Ruhrgebiets 12.69

D	[redacted]	406	REG	~~A~~	~~B~~	C	D	E	F	01	02	03	04	05	~~11~~	12	13	14	15	21	~~22~~	~~23~~	24	25	31	32	33	34	35	L	M	~~S~~	~~1~~	2	3	12.69		S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Aussenstelle / WaBoLu
Branch of WaBoLu (Berlin)

ACRONYM:
See also D.002

ADDRESS: 4000 DÜSSELDORF 1,
Auf'm Hennekamp 70.

Tel.:

AFFIL: Bundesgesundheitsamt.
WaBoLu, Berlin (D.002).

Title	PERSONNEL	Function
Dr.	H.K.Kettner	director
Dr.	P.Mathe	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.406 Aussenstelle der WaBoLu, Düsseldorf 12.69

D	[redacted]	407	ASN	A	~~B~~	C	D	E	~~F~~	01	02	03	04	05	11	12	13	14	~~15~~	21	~~22~~	23	24	25	31	~~32~~	33	34	35	L	~~M~~	S	1	2	~~3~~	12.69	[redacted]	S	~~T~~
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: RUHRKOHLEN-BERATUNG GmbH
Ruhr Coal Consulting Co. Ltd.

ACRONYM:
See also D.045

ADDRESS: 4300 ESSEN 1,
Ruhrkohlehaus.
(Postfach 2)

Tel.:

AFFIL: Steinkohlenbergbauverein
(D.045)

Title	PERSONNEL	Function
Obering.	H.M.Trenck	resp. for clean air matters
Dr.	Egnolf	head of tech.depts.
Dr	Eckhoff	i/c test lab.

AP aims and actions:
Research into emissions of smoke etc from domestic coal-fired stoves.
Development of measurement techniques (in cooperation with LIB - D.002).
Assisting in development of low-smoke coal-fired stoves.

Comments:
Smoke meas't work is subject of thesis by Dr. Thieme (Tech.H'schul. Karlsruhe)(summarised in Staub).

Member of VDI Komm. R. der Luft.

. D.407 Ruhrkohlen-Beratung GmbH 12.69

D [redacted]	408	TND	~~A~~ B C D E ~~F~~	01 02 03 ~~04~~ 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 ~~33~~ ~~34~~ 35	L M ~~S~~	1 ~~2~~ 3	12.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: DUISBERGER KUPFERHÜTTE
Duisberg Copper Works

ACRONYM:

See also

ADDRESS: 4100 DUISBERG,
Werthauser Str. 218.
(Postfach 11).

Tel.:

AFFIL.:
Duisburg

Title	PERSONNEL	Function
Dir.Dr.	G. Henrich	
Dr.	P. Fink	
	W. Teworte	

AP aims and actions:

Studies of abatement processes for SO_2 (catalytic oxidation, scrubbing).
Design and comparison of air quality instruments (participated in design of 'Okometer' - see D.357).

Comments:

Member of VDI Komm. R. der Luft.

D.408 Duisberger Kupferhütte

12.69

D [redacted]	409	REG	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: METEOROLOGISCHES OBSERVATORIUM AACHEN
Aachen Meteorological Observatory

ACRONYM:

See also

ADDRESS: 5100 AACHEN,
Pipinstrasse 12.

Tel.:

AFFIL.: Deutscher Wetterdienst

Title	PERSONNEL	Function
Dip.Met	H. Borchardt	

AP aims and actions:

Lidar measurements of smoke plumes.

Comments:

Member of VDI Komm. R. der Luft.

D.409 Meteorologisches Observatorium Aachen

D	410	SOC	~~A~~ B C D E F	01 02 03 04 ~~05~~	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	12.69	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: GESELL. ZUR FÖRDERUNG DER LUFTHYGIENE U. SILIKOSEFORSCH. eV

Soc. for the Furtherance of Air Cons. & Silicosis Research.

ACRONYM:

See also D.412

ADDRESS: 4000 DÜSSELDORF,
Gurlittstrasse 53.

Tel:

AFFIL: (Sponsoring organisation to fund the Med.Inst. of the same name at the U. of Düsseldorf - D.412.)

Title	PERSONNEL	Function
Prof.Dr	W. Kikuth	
Dr	Oermann	

AP aims and actions:

Investigations into problems of mine hygiene.

Comments:

See back of card for member organanisations.

D.410 Gesell. zur Förderung der Lufthygiene u. Silikoseforschung eV 12.69 X

D.410 Gesell. zur Förderung der Lufthygiene u. Silikoseforschung eV

Membership:
- Nordrhein-Westfalen Gov't
- Landesamt für Forschung (a dept. of Kulturministerium of NR-W)*
- the two Berufsgenossenschafte
- Steinkohl Bergbau Verein (D.045)
- Industriegewerksschaft Bergbau u. Energie (labour union)
- Landesversicherungsanstalt der Rhein Provinz (social security & welfare)
- VDI (D.021)
- individual members (mostly medical experts)

* Official board for sponsoring research from public funds.

D [redacted]	410	SOC	[✓ A] B C D E F	01 02 03 04 [✓ 05]	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	12.69	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: GESELL. ZUR FÖRDERUNG DER LUFTHYGIENE U. SILIKOSEFORSCH. eV

Soc. for the Furtherance of Air Cons. & Silicosis Research.

ACRONYM:

See also D.412

ADDRESS: 4000 DÜSSELDORF,
Gurlittstrasse 53.

Tel.:

AFFIL: (Sponsoring organisation to fund the Med.Inst. of the same name at the U. of Düsseldorf - D.412.)

Title	PERSONNEL	Function
Prof.Dr	W. Kikuth	
Dr	Oermann	

AP aims and actions:

Investigations into problems of mine hygiene.

Comments:

See back of card for member organisations.

D.410 Gesell. zur Förderung der Lufthygiene u. Silikoseforschung eV 12.69 X

D [redacted]	411	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	12.69	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: U.DÜSSELDORF, Inst.f.Hygiene

" "

ACRONYM:

See also D.412

ADDRESS: 4000 DÜSSELDORF,
Gurlittstrasse 53.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	L. Grün	

AP aims and actions:

Air and food contamination, hospital hygiene, sterilisation, disinfection.

Comments:

Member of VDI Komm. R. der Luft.

D.411 U.Düsseldorf, Inst.f.Hygiene 12.69

D	[redacted]	412	ACD	[✓ A] [✓ B] C [✓ D] E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	12 69	[redacted] S [✓ T]
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: U.DÜSSELDORF, Med.Inst.f.Lufthygiene u. Silikoseforschung
" Med.Inst.f.Air Hygiene and Silicosis Research

ACRONYM:

See also D.410 D.411

ADDRESS: 4000 DÜSSELDORF,
Gurlittstrasse 53.

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	H-W. Schlipköter	director
Dr.Med.	G. G. Fodor	
Dr.Med.	W. Dehnen	
Dr.Med.	H. Antweiler	
Dr.Med.	R. Dolgner	(not all AP?)
Dr.Ing.	K. H. Friedrichs	
Dr.	Tomingas	
Dr.	A. Brockhaus	

AP aims and actions:

Effects on humans and test animals of various hydrocarbons and particulates (esp. silica-containing dust): statistical evaluations.
Aerosol analyses during atmospheric inversions, etc.

Comments:

Member of VDI Komm. R. der Luft.

D.412 U.Düsseldorf, Med.Inst.f.Lufthygiene u. Silikoseforschung 12.69

D	[redacted]	413	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 [✓ 25]	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	12.69	[redacted] S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: U.MÜNSTER, Inst.f.Medizinische Physik
" Inst.f.Medical Physics

ACRONYM:

See also

ADDRESS: 4400 MÜNSTER,
Hüfferstrasse 68.

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	G. Pfefferkorn	director

AP aims and actions:

Effects of particulates on health.
.Research into filtration of fine particles and absorption of SO_2 by body.
Research into smog formation.

Comments:

Member of VDI Komm. R. der Luft.

D.413 U.Münster, Inst.f.Medizinische Physik 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
D	414	SOC	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	12.69	S T

NAME: VEGETATIONSVERSUCHSANSTALT HUBBELRATH

Vegetation Research Establishment, Hubbelrath

ACRONYM:

See also D.422

ADDRESS: 4021 HUBBELRATH bei Mettmann,
Schwarzbach 9.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Helmut-Berge	director

AP aims and actions:

Research into the chemical, physical and biological factors affecting the sensitivity of plants to AP, separately and in combination.
Cultivation of resistant tree species.

Comments:

Private research organisation.

D.414 Vegetationsversuchsanstalt Hubbelrath 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
D	415	SOC	~~A~~ B C D E F	~~01~~ ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~S~~	1 2 ~~3~~	12.69	S T

NAME: ING'SCHULE F. TEXTILWESEN, Abt. Farben und Lacke

Training Coll. for Textile Eng'g, Paints and Varnish Dept.

ACRONYM:

See also

ADDRESS: 4150 KREFELD,
Adlerstrasse 32.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	M. Kühn	

AP aims and actions:

Emissions from fuelfiring and i/c engines.
Effects of fuel additives on vehicle emissions.

Comments:

Private research establishment.

D.415 Ing'schule f. Textilwesen, Abt. Farben u Lacke 12.69

D [redacted] 416 ACD ~~A~~ ~~B~~ C ~~D~~ E F 01 02 03 04 05 11 12 13 14 15 21 22 23 ~~24~~ ~~25~~ 31 32 33 34 35 L M ~~S~~ ~~1~~ 2 3 12.69 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: R-W TECH.H'S AACHEN, Forsch'stelle f. Geophysik u. Meteorol.
" Res. Station for Geophysics & Meteorol.

ACRONYM:

See also

ADDRESS: 5100 AACHEN,
Templergraben 55.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	Hans Israel	director (retired?)

AP aims and actions:
Studies of atmospheric electricity and condensation nuclei. Atmospheric radioactivity measurements.

Comments:

D.416 R-W TH Aachen, Forsch'stelle f. Geophysik u. Meteorology 12.69

D [redacted] 417 ACD ~~A~~ ~~B~~ C D E F 01 02 03 04 05 11 ~~12~~ 13 14 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 12.69 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: R-W TH AACHEN, Botanisches Inst.
" Botanical Institute

ACRONYM:

See also

ADDRESS: 5100 AACHEN,

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	A. Th. Czaja	director

AP aims and actions:
Effect of cement dust on plants.

Comments:

D.417 R-W TH Aachen, Botanisches Inst. 12.69

D	[redacted]	418	ACD	~~A~~ ~~B~~ C D E F	~~01~~ ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 ~~25~~	~~31~~ 32 ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	12.69	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: R-W TH AACHEN, Inst. f. Metallurgie... *
" Inst. for Metallurgy...

ACRONYM:

See also

ADDRESS: 5100 AACHEN,
Wüllnerstrasse.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	O. Knacke	director

AP aims and actions:

Studies of the use of additives for the reduction of emissions from vehicles and oil-firing.

Investigation of smog formation and (electric) precipitation of fine dusts.

Comments:

* Institut für Metallurgie der Kernbrennstoffe und Theoretische Hüttenkunde (Inst. for Metallurgy of Nuclear Fuels and Theoretical Metallurgy).

Member of VDI Komm. R. der Luft.

D.418 R-W TH Aachen, Inst. f. Metallurgie... 12.69

D	[redacted]	419	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 ~~32~~ ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	12.69	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: R-W TH AACHEN, Inst. f. Brennstoffchemie
" Inst. for Fuel Chemistry

ACRONYM:

See also

ADDRESS: 5100 AACHEN,
Alte Maastrichter Strasse 2.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	C. Kröger	director

AP aims and actions:

Investigation into problems of the emission and abatement of flue gas pollutants; measurements of ambient air quality.

Comments:

D.419 R-W TH Aachen, Inst. f. Brennstoffchemie 12.69

D 420 ACD ~~A~~ ~~B~~ C D E F 01 02 03 04 05 11 12 13 14 15 21 ~~22~~ 23 24 25 31 32 ~~33~~ 34 35 L M ~~S~~ 1 2 ~~3~~ 12 69 T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: R-W TH AACHEN, Inst. f. Verfahrenstechnik
" Inst. for Process Technology

ACRONYM:

See also

ADDRESS: 5100 AACHEN,
Turmstrasse 46.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Prof.Dr	R. Rautenbach	director

AP aims and actions:

Basic principles of analysis of particulates.
Studies of electrostatic precipitators and venturi scrubbers.

Comments:

D.420 R-W TH Aachen, Inst. f. Verfahrenstechnik 12.69

D 421 ACD ~~A~~ ~~B~~ C D E F 01 02 03 04 05 11 ~~12~~ 13 14 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 ~~2~~ 3 12 69 S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: U.BONN, Inst. f. Landwirtschaftliche Botanik
" Inst. f. Agricultural Botany

ACRONYM:

See also

ADDRESS: 5300 BONN,
Meckenheimer Allee 176.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Prof Dr	H. Ullrich	director *

AP aims and actions:

Studies of effects of SO_2 and NO_x etc on plants, and distinction between these effects.

Comments:

*Prof. Ullrich is believed to have moved to the Biol. Bundesanstalt (D.007) at Braunschweig.

D.421 U.Bonn, Inst. f. Landwirtschaftliche Botanik 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
D [redacted]	422	SOC	[✓ A] B C D E F	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	12.69	[redacted]	S T

NAME: AGRIKULTURCHEMISCHES INSTITUT DR BERGE
Agrochemical Institute of Dr. Berge

ACRONYM:
See also D.414

ADDRESS: 5628 HEILIGENHAUS,
Am Vogelsang 14.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Helmut Berge	director

AP aims and actions:

Generalised research on ambient air quality, the effects of pollutants on plants, and the cultivation of pollutant resistant trees.

Comments:

Private research institute. Dr. Berge authors many papers in Journals and newspapers.

D.422 Agrikulturchemisches Institut 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
D [redacted]	423	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 [✓ 24] 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	12.69	[redacted]	S [✓ T]

NAME: FARBENFABRIKEN BAYER AG

ACRONYM: Bayer
See also

ADDRESS: 5090 LEVERKUSEN.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dir.Dr.	W. Heimsoeth	head of Effluents Dept.
Dr.Ing.	K. Winkler	i/c conservation activities
Dr.	W. Breuer	dispersion maths.
Dr.	H. H. Weber	
Dr.	H. Ehrlicher	
Dr.	G. Kimmerle	
Dip.Ing	G. Menniken	

AP aims and actions:

Large-scale survey of SO_2 in poor dispersion conditions. Design of AP instrumentation (Picoflux)

Comments:

Supports chemical industry through BDI (D.035)(Dr.Heimsoeth is chmn of BDI cttee for Industrial Poll.)

Dr. Breuer provides expert opinion for Fed.Hlth.Min. on calculation of stack heights.

Member of VDI Komm. R. der Luft.

D.423 Farbenfabriken Bayer AG 12.69

RHEINLAND - PFALZ

D	502	ASN	A B C [✓ D] [✓ E] F	01 [✓ 02] [✓ 03] [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	12.69	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: TECHNISCHER ÜBERWACHUNGS-VEREIN RHEINLAND eV
Technical Supervision Association Inc. of the Rhineland

ACRONYM: TÜV-Rheinland

See also D.020

ADDRESS: 5000 KÖLN 5,
Lukasstrasse 90.

Tel.: 0221 - 57481

AFFIL: Fed. of TÜV's (D.020).

Title	PERSONNEL	Function
Dr.Ing.	A. Kuhlmann	director
Dr.Ing.	May	
Dr.	Hansch	
Oberreg.	L. Düwel	

AP aims and actions:

Measurement of SO_2 and particulates from coal, browncoal- and oil-fired boilers (>10T/h).

Comments:

Publishes Annual Report.
Member of VDI Komm. R. der Luft.

D [redacted]	503	ACD	[✓ A] [✓ B] C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 [✓ 24] [✓ 25]	31 32 33 34 35	L [✓ M] S	[✓ 1] 2 3	12.69	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: U.MAINZ, Inst. f. Angewandte Physik

" Institute for Applied Physics

ACRONYM:

See also

ADDRESS: 6500 MAINZ,
Joh. Joachim Becher Weg 12.
(Postfach 606).

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	H. Klumb	director (retired).
Prof.Dr	C. Junge	

AP aims and actions:

Physics of (radioactive) aerosols - spectrometry, filtration, evaluation.
Size distribution, chemistry and optical properties of atmospheric aerosols.
Studies of trace gases in the atmosphere (NO_x SO_x CO &c).
One of the measuring stations of the DFG (D.032).

Comments:

D.503 U.Mainz, Inst. f. Angewandte Physik 12.69

D	[redacted]	601	REG	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: STAATLICHES INST. FÜR HYGIENE UND INFEKTIONSKRANKHEITEN

State Institute for Hygiene and Infectious Diseases

ACRONYM:

See also

ADDRESS: 6600 SAARBRÜCKEN,
Malstatter Strasse 17.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	L. Wolff	director

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.601 Staatliches Inst. für Hygiene und Infektionskrankheiten

D 602 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: TECHNISCHER ÜBERWACHUNGS-VEREIN SAARLAND eV
Technical Supervision Association Inc. of Saarland

ACRONYM: TÜV-Saarland
See also D.020

ADDRESS: 6600 SAARBRÜCKEN,
Karcher Str. 12.
(Postfach 1166)

Tel.:

AFFIL: Fed. of TÜV's (D.020)

Title	PERSONNEL	Function
Obering.	H. Monstadt	
Dip. Ing.	Th. Furkel	director

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.602 Technischer Überwachungs-Verein Saarland eV

D 603 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 7.70 S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: MAX-PLANCK INSTITUT FÜR CHEMIE
Max Planck Institute for Chemistry

ACRONYM:
See also

ADDRESS: 6500 MAINZ.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	C. Junge	
Dr.	G. Scheich	

AP aims and actions:
Chemical constitution of atmospheric aerosols. [illegible]

Comments:

D.603 Max-Planck Institut für Chemie, Mainz 7.70

BADEN - WÜRTTEMBERG

D	701	GOV	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		S
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ARBEITS- UND SOZIALMINISTERIUM BADEN-WÜRTTEMBERG
Ministry of Labour and Social Affairs, Baden-Württemberg

ACRONYM:

See also

ADDRESS: 7000 STUTTGART,
Rotebühlplatz 30.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Min.Rat.	K. Domhan	
Med.Dir.	R. Hoschek	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.701 Arbeits- und Sozialministerium Baden-Württemberg

D [redacted] 702 REG A B C [✓ D] E F 01 02 03 04 05 [✓ 11] 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L [✓ M] S [✓ 1] 2 3 12.69 [redacted] S [✓ T]

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: LANDESINSTITUT FÜR ARBEITSSCHUTZ UND ARB'MEDIZIN, KARLSRUHE
Land Inst. for Occupational Safety and Hygiene, Karlsruhe

ACRONYM:

See also

ADDRESS: 7500 KARLSRUHE,
Kaiserallée 61.

Tel.:

AFFIL: Min. für ...? B-W.

Title	PERSONNEL	Function
Ober.Rat.	W. Massmann	
Ober.Rat.	W. Morgenstern	
Ober.Rat.	W. Obländer	(not all AP)
Reg.Rat.	K. Kamm	
Ph.Chem.	L. Grupinski	

AP aims and actions:
Surveys of AP in and around Karlsruhe.

Comments:
Member of VDI Komm. R. der Luft.

D.702 Landesinst. für Arbeitsschutz u. Arbeitsmedizin, Karlsruhe 12.69

D. [redacted] 703 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: TECHNISCHER ÜBERWACHUNGS-VEREIN BADEN eV
Technical Supervision Association Inc. of Baden

ACRONYM: TÜV-Baden

See also D.020

ADDRESS: 6800 MANNHEIM,
Richard-Wagner Str. 2.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Obering.	G. Beier	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.703 Technischer Überwachungs-Verein Baden eV

D [redacted] 704 REG A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: WETTERAMT FREIBURG
Meteorological Service, Freiburg

ACRONYM:
See also

ADDRESS: 7800 FREIBURG,
Stefan-Meier-Str. 4.

Tel.:

AFFIL: Deutscher Wetterdienst

Title	PERSONNEL	Function
Dr.	R. Neuwirth	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.704 Wetteramt Freiburg

D [redacted] 705 REG A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S ~~T~~
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: STAATLICHE LANDWIRTSCHAFTLICHE VERSUCHS....ANSTALT
State Agricultural Experimental & Research Station.

ACRONYM:
See also

ADDRESS: 7500 KARLSRUHE-DURLACH,
Nesslerstrasse 23.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	W. Scholl	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.705 Staatliche Landwirtschaftliche Versuchs...anstalt...

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
D [redacted]	706	REG	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S T

NAME: BADEN-WÜRTTEMBERGISCHE FORSTLICHE VERSUCHS...ANSTALT
Baden-Württemberg Forestry Experimental and Research Sta.

ACRONYM:

See also

ADDRESS: 7800 FREIBURG,
Sternwaldstrasse 16.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	R. Zundel	head of land conservation

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.706 Baden-Württemberg Forestry Exptl. and Research Station

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
D [redacted]	707	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	12.69	[redacted]	S T

NAME: U. HEIDELBERG, Inst. f. Physiologische Chemie
" Inst. f. Physiological Chemistry

ACRONYM:

See also

ADDRESS: 6900 HEIDELBERG,
Akademiestrasse 5.
(Postfach 1326).

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	W. Kutscher	director

AP aims and actions:
Studies of the carcinogenicity of soot, flue gases and other air pollutants.

Comments:
Member of VDI Komm. R. der Luft.

D.707 U. Heidelberg, Inst. f. Physiologische Chemie 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
D [redacted]	708	ACD	~~A~~ B C ~~D~~ E F	01 02 03 04 ~~05~~	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	12.69	[redacted]	S	T

NAME: U. HEIDELBERG, Zweites Physikalisches Institut

" Second Physical Institute

ACRONYM:

See also

ADDRESS: 6900 HEIDELBERG,
Philosophenweg 12.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	O. Haxel	director
Dr.	G. Schumann	

AP aims and actions:
Measurements of ambient and fallout radioactivity.

Comments:
Member of VDI Komm. R. der Luft.

D.708 U. Heidelberg, Zweites Physikalisches Inst. 12.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
D [redacted]	709	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	12.69	[redacted]	S	T

NAME: U. HOHENHEIM, Inst. f. Tierernährung

" Inst. for Animal Nutrition

ACRONYM:

See also

ADDRESS: 7000 STUTTGART-HOHENHEIM,
Emil-Wolff-Strasse 8.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	W. Wöhlbier	
Dr.	W. Oelschläger	

AP aims and actions:
Metabolic studies of the effects of trace elements in animal foodstuffs. Analytical techniques for traces of F, Se, etc.

Comments:
Member of VDI Komm. R. der Luft.

D.709 U. Hohenheim, Inst. f. Tierernährung 12.69

D [redacted]	710	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	12.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U. STUTTGART, Inst.f.Verfahrenstechnik u. Dampfkesselwesen
" Inst.f. Processing and Boiler Technology

ACRONYM:

See also

ADDRESS: 7000 STUTTGART 1,
Holzgartenstrasse 15a.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	R. Quack	

AP aims and actions:

Sizing of small particulates and their removal electrostatically.
Absorption of SO_2 from flue gases.

Comments:

Member of VDI Komm. R. der Luft.

D.710 U. Stuttgart, Inst.f.Verfahrenstechnik u. Dampfkesselwesen 12.69

D [redacted]	711	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	12.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.KARLSRUHE, Inst.f.Mechanische Verfahrenstechnik
" Inst.f. Mechanical Processing Technology

ACRONYM:

See also

ADDRESS: 7500 KARLSRUHE,
Richard-Willstätter-Allee.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	H. Rumpf	director
Dr.Ing.	F. Löffler	

AP aims and actions:

Investigation of agglomeration, and of adhesion of particulates to filter fibres.
Development of scattered light analyser.
Studies of particulate sizing methods.
Tests of centrifugal separators.

Comments:

Member of VDI Komm. R. der Luft.

D.711 U. Karlsruhe, Inst.f.Mechanische Verfahrenstechnik 12.69

D [redacted]	712	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	12.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.KARLSRUHE, Inst.f.Elektrobiol. u. Biophysikal. Messtechnik
" Inst.f.Electrobiology & Biophysical Measuring

ACRONYM:

See also

ADDRESS: 7500 KARLSRUHE,
Kaiserstrasse 12.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	W. Ernsthausen	director

AP aims and actions:

Effects of CO on electrical and mechanical function of hearts of warm-blooded animals.

Comments:

D.712 U. Karlsruhe, Inst.f.Elektrobiologie u. Biophys. Messtechnik 12.69

D [redacted]	713	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.KARLSRUHE, Inst.f.Mineralöl- u. Kohleforschung
" Inst.f. Mineral Oil & Coal Research

ACRONYM:

See also

ADDRESS: 7500 KARLSRUHE 1,
Kaiserstrasse 12.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	K. Griesbaum	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.713 U. Karlsruhe, Inst. f. Mineralöl- u. Kohleforschung

D [redacted]	714	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 [✓ 24] 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	12.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: U.KARLSRUHE, Meteorologisches Institut

" Meteorological Institute

ACRONYM:

See also

ADDRESS: 7500 KARLSRUHE 1,
Kaiserstrasse 12.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	M. Diem	
Dr.	K. Höschele	

AP aims and actions:

Research into wind profiles, exchange coefficients and topography on dust and gas dispersion.
Climatic distribution of pollutants.

Developed sticky slides (diemsche Haftfolie) for sampling particulates.

Comments:

Did early part of work on dispersion for VDI.

D.714 U. Karlsruhe, Meteorologisches Institut 12.69

BAYERN

D [redacted]	801	GOV	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: BAYERISCHES STAATSMINISTERIUM FÜR WIRTSCHAFT UND VERKEHR

Bavarian Ministry of Economics and Transport

ACRONYM:

See also

ADDRESS: 8000 MÜNCHEN 22,
Prinzregentenstrasse 28.

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Promotes and subsidises research into air pollution control measures at a number of Bavarian Institutes.

Comments:

D.801 Bayerisches Staatsministerium für Wirtschaft und Verkehr

D [redacted]	802	REG	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: BAYERISCHES LANDESINSTITUT FÜR ARBEITSSCHUTZ
Bavarian State Institute for Labour Protection

ACRONYM:

See also

ADDRESS: 8000 MÜNCHEN 22,
Pfarrstrasse 33.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Th. zur Mühlen	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.802 Bayerisches Landesinstitut für Arbeits[illegible]tz

D [redacted]	803	ASN	A B C ~~D~~ ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	12.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: TECHNISCHER ÜBERWACHUNGS-VEREIN BAYERN eV
Technical Supervision Association Inc. of Bavaria

ACRONYM: TÜV-Bayern

See also D.020

ADDRESS: 8000 MÜNCHEN 12,
Eichstätter Str. 5.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Obering.	W. Fadinger	
Obering.	L. Wiedmann	
Dr.Ing.	G. Müller	
Dip.Phys	K. Köhler	
Obering.	R. Brinke	

AP aims and actions:

Comments:
Member of VDI Komm. R. der Luft.

D.803 Technischer Überwachungs-Verein Bayern eV

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
D [redacted]	804	IND	A B C ~~D~~ E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	12.69	[redacted]	S	~~T~~

NAME:

Ingolstadt Monitoring System

ACRONYM:

See also

ADDRESS: 8... INGOLSTADT.

Tel.:

AFFIL.: Bayerisches Staatsministerium des Innern, + BP, Bayernwerk AG, ERIAG, Esso, Shell, and Isar-Amper-Werke.

Title	PERSONNEL	Function
One full-time operator. Cost: approx. DM 100 000/Y.		

AP aims and actions:

To monitor SO_2 pollution levels around the Ingolstadt industrial area.

Required by Bavarian Min. of the Interior. Work by the Bayernwerk AG power plant staff (1 man) in name of all participants; weekly summaries and monthly digests to Min., Bavarian TÜV (D.803) and participants. Contract with Munich Met.Office for bad weather warnings, and with TÜV for instrument inspection and calibration.

Comments:

D.804 Ingolstadt Monitoring System

12.69

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
D [redacted]	805	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S	T

NAME: INSTITUT FÜR MOTORENBAU

Institute for Engine Building

ACRONYM:

See also

ADDRESS: 8000 MÜNCHEN 81,
Eggenfeldener Str. 4.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Prof.	E.W.Huber	
Dr.Ing.	M. Greiner	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.805 Institut für Motorenbau

D	[redacted]	806	ACD	[✓ A]	[✓ B]	C	[✓ D]	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	[✓ 24]	25	31	32	33	34	35	L	M	[✓ S]	1	2	[✓ 3]	12.69	[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: U.MÜNCHEN, Meteorologisches Institut

U.MUNICH, Meteorological Institute

ACRONYM:

See also

ADDRESS: 8000 MÜNCHEN 13,
Amalienstrasse 52 III.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	F. Möller	director

AP aims and actions:

Investigation and continuous measurement of atmospheric turbulence.

Comments:

D.806 U. München, Meteorologisches Institut 12.69

D	[redacted]	807	ACD	[✓ A]	[✓ B]	C	D	E	F	[✓ 01]	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	[✓ 32]	33	34	35	L	M	[✓ S]	1	2	[✓ 3]	12.69	[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: U.MÜNCHEN, Physikalisch-chemisches Institut

U. MUNICH, Physical Chemistry Institute

ACRONYM:

See also

ADDRESS: 8000 MÜNCHEN 2,
Sophienstrasse 11.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	G. M. Schwab	director

AP aims and actions:

Studies of catalysts for vehicle exhaust gas cleaning.

Comments:

Member of VDI Komm. R. der Luft.

D.807 U. München, Physikalisch-chemisches Institut 12.69

D	[redacted]	808	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	12.69	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.MÜNCHEN, Inst.f.Forstsamenkunde u. Pflanzenzüchtung
U. MUNICH, Inst. f. Seed Research and Plant Breeding

ACRONYM:

See also

ADDRESS: 8000 MÜNCHEN 13,
Amalienstrasse 52.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	E. Rohmeder	director
	Schönban	

AP aims and actions:

Breeding of varieties of spruce and pine relatively resistant to pollutants. (incl. HF)

Comments:

Member of VDI Komm. R. der Luft.

D.808 U. München, Inst.f.Forstsamenkunde u. Pflanzenzüchtung 12.69

D	[redacted]	809	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.MÜNCHEN, Inst.f.Mediz. Balneologie u. Klimatologie
U. MUNICH, Inst.f.Medical Spa Science and Climatology

ACRONYM:

See also

ADDRESS: 8000 MÜNCHEN 55,
Martinsriederstrasse 17.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dip.Phys	K. Dirnagl	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.809 U. München, Inst.f.Mediz. Balneologie u. Klimatologie

D [redacted]	810	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	12.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: U.WÜRZBURG, Inst.f.Toxikologie u. Pharmakologie

" Inst. for Toxicology and Pharmacology

ACRONYM:

See also

ADDRESS: 8700 WÜRZBURG,
Koelliker Strasse 2.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	D. Henschler	director

AP aims and actions:

Studies of the effects of NO_x on animals and humans.

Comments:

Member of VDI Komm. R. der Luft.

D.810 U. Würzburg, Inst.f. Toxikologie u. Pharmakologie 12.69

D [redacted]	811	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: TH.MÜNCHEN, Inst.f. Pflanzenernährung

TH. MUNICH, Inst.f. Plant Nutrition

ACRONYM:

See also

ADDRESS: 8050 FREISING-WEIHENSTEPHAN,
Prandtlstrasse 23.

Tel..

AFFIL:

Title	PERSONNEL	Function
Prof.Dr	A. Amberger	

AP aims and actions:

Comments:

Member of VDI Komm. R. der Luft.

D.811 TH. München, Inst.f. Pflanzenernährung

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GREAT BRITAIN - GB

GB	[redacted]	001	GOV	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	6.70	[redacted]	S	/
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: THE INTERDEPARTMENTAL COMMITTEE ON AIR POLLUTION RESEARCH

ACRONYM: ICAPR

See also GB.003, 004

ADDRESS:
Dudley House,
Endell Street,
LONDON W.C.2.

Tel.: 01.836.6011

AFFIL:

Title	PERSONNEL	Function
Dr.	A.J. Robinson	Chairman
Mrs.	M.L. Weatherley	Secretary (Warren Spring Lab. - GB.039)

AP aims and actions:

To identify the researches necessary to solve problems in connection with air pollution:
(a) defined by the Clean Air Councils (GB.003, 004) or by Government Departments with responsibilities in the field, or
(b) likely to require research in the future; to agree on the allocation of such researches to appropriate organisations, to coordinate the work where desirable to keep under review the research in progress, and to report to the Clean Air Councils on the progress made.

Comments:

GB.001 The Interdepartmental Committee on Air Pollution Research 6.70

GB	[redacted]	002	GOV	A ~~B~~ ~~C~~ D E F	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	6.70	[redacted]	S	/
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: THE ROYAL COMMISSION ON ENVIRONMENTAL POLLUTION

ACRONYM:

See also

ADDRESS: Great George Street,
LONDON S.W.1.

Tel.: (01) 930.3324

AFFIL:

Title	PERSONNEL	Function
Sir	Eric Ashby	Chairman
Prof.	W. Beckeman	
Mr.	Aubrey Buxton	
Sir	Frank Fraser-Darling	
Mr.	N.A. Iliff	
Rt.Rev	Bishop of Norwich	
Sir	John Winifrith	
Contd./*		

AP aims and actions:

"To advise the Government on matters of national and international importance; on the adequacy of research into pollution; and on possible dangers to the environment.

Comments:

* Prof V.C. Wynne Edwards
Sir Solly Zuckermann

GB.002 The Royal Commission on Environmental Pollution 6.70

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Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB	003	GOV	A B ~~C~~ D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	S ~~T~~

NAME: CLEAN AIR COUNCIL

ACRONYM:

See also

ADDRESS: Ministry of Housing and
Local Government,
Whitehall,
LONDON S.W.1.

Tel.: 01.930.4300

AFFIL: Min. Hsg & Local Gov't.

Title	PERSONNEL	Function
Lord	Kennet	Chairman
Mr.	G.I. Fuller	Secretary

+ not more than 30 appointed members from Local Authorities, industry and other interested bodies.

AP aims and actions:

To keep under review the progress made in abating the pollution of the air in England and Wales.
To obtain the advice of persons having special knowledge, experience or responsibility in regard to the prevention of pollution of the air.

Comments:

GB.003 Clean Air Council 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB	004	GOV	A B ~~C~~ D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	S ~~T~~

NAME: CLEAN AIR COUNCIL FOR SCOTLAND

ACRONYM:

See also

ADDRESS: Scottish Development Dept.
21, Hill Street,
EDINBURGH 2.

Tel.: 031.226.5206

AFFIL:

Title	PERSONNEL	Function
Dr.	E. A. B. Birse	

Members pppointed from Local Authorites, industry and other interested bodies.

AP aims and actions:

To keep under review the progress made in abating the pollution of the air in Scotland.
To obtain the advice of persons having special knowledge, experience or responsibility in regard to the prevention of pollution of the air.

Comments:

GB.004 Clean Air Council for Scotland 5.70

GB	[redacted]	005	GOV	A B C ~~D~~ ~~E~~ F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 ~~15~~	21 22 ~~23~~ ~~24~~ 25	~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~	~~1~~ M S	~~1~~ 2 3	5.70	[redacted] S ~~1~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ALKALI INSPECTORATE

ACRONYM:

See also

ADDRESS: Ministry of Housing and Local
Government,
Whitehall,
LONDON S.W.1.

Tel.: 01.930.4300

AFFIL: Min. Hsg. & Local Gov't.

Title	PERSONNEL	Function
Mr.	F. B. Ireland	Chief Inspector
Mr.	J. Beighton)	Dep. chief inspectors
Mr.	E. A. J. Mahler)	
	+ 12 district inspectors	+ 11 inspectors

AP aims and actions:

Enforcement of the Alkali, etc., Works Act by surveillance of scheduled processes for compliance with the "best practicable means" criterion. The Inspectorate also advises on the best practicable means and is responsible for developing new emission criteria and the inclusion of new processes into the Act.

Publishes 'Annual Report'.

Comments:

GB.005 Alkali Inspectorate 5.70

GB	[redacted]	006	GOV	A ~~B~~ C D E F	~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~	~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~	~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~	~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~	~~1~~ M S	~~1~~ 2 3	6.70	[redacted] S ~~1~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: "CENTRAL UNIT FOR CONSERVATION"

ACRONYM:

See also GB.001

ADDRESS: Min. Hsg. & Local Govt,
Whitehall,
LONDON S.W.1.

Tel.: (01) 930.4300

AFFIL: Secretary of State for Local
Govt. and Regional Planning

Title	PERSONNEL	Function
	Mainly government	scientists

AP aims and actions:

To assist the Secretary of State in his coordinating role on environmental pollution.

To maintain contact with the Chief Scientific Adviser to the Government and with research councils and other institutions concerned with conservation.

Comments:

A permanent unit set up by the Secretary of State in December 1969.

GB.006 "Central Unit for Conservation" 6.70

GB	[redacted]	011	REG	[✓ A] [✓ B] C/D/E F	01 [✓ 02] 03 [✓ 04] 05	11 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	6.70	[redacted]	S [✓ T]
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: DERBYSHIRE CLEAN AIR JOINT CONSULTATIVE COMMITTEE

ACRONYM:

See also GB.029

ADDRESS: Town Clerk's Office,
Town Hall,
CHESTERFIELD

Tel.: 0246.77232

AFFIL: SCCB (GB.029)

Title	PERSONNEL	Function
	Town Clerk of Chesterfield	Secretary

AP aims and actions:

Recommends the setting up of smoke control zones in the area.
Superintends the working of smoke inspectors in the area.

Comments:

Composed mainly of local councillors.

GB.011 Derbyshire Clean Air Joint Consultative Committee 6.70

GB	[redacted]	012	REG	A [✓ B] C [✓ D] [✓ E] F	01 02 03 04 05	11 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	6.70	[redacted]	S [✓ T]
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: MANCHESTER AND DISTRICT REGIONAL CLEAN AIR COUNCIL

ACRONYM:

See also GB.029

ADDRESS: Town Hall,
MANCHESTER 2.

Tel.: (061) 236 3377

AFFIL: SCCB (GB.029)

Title	PERSONNEL	Function
	The Town Clerk	Secretary

AP aims and actions:

Recommends the setting up of smoke-control zones.
Superintends the working of the smoke inspectors

Comments:

Composed mainly of councillors from the different authorities involved.

GB.012 Manchester and District Regional Clean Air Council 6.70

GB	[redacted] 013	REG	A ~~B~~ C ~~D~~ ~~E~~ F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	6.70	[redacted]	S ~~7~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: MIDLANDS JOINT ADVISORY COUNCIL FOR CLEAN AIR AND NOISE CONTROL

ACRONYM:

See also GB.029

ADDRESS:
The Limes,
Dudley Road,
SEDGLEY,
Staffordshire.

Tel.:

AFFIL: SCCB (GB.029)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

GB.013 Midlands Joint Advisory Council for Clean Air and Noise Control 6.70

GB	[redacted] 014	REG	A ~~B~~ C ~~D~~ ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	6.70	[redacted]	S ~~7~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: SHEFFIELD AND DISTRICT CLEAN AIR COMMITTEE

ACRONYM:

See also GB.029

ADDRESS:
Town Hall,
SHEFFIELD.

Tel.: 0742.26444

AFFIL: SCCB (GB.029)

Title	PERSONNEL	Function
	The Town Clerk	Secretary

AP aims and actions:

Recommends the setting-up of smoke control zones
Superintends the working of the smoke inspectors

Comments:

Composed of councillors from the different authorities involved

GB.014 Sheffield and District Clean Air Committee 6.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	015	REG	A [✓ B] C [✓ D] [✓ E] F	01 02 03 04 05	11 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	6.70	[redacted] S [✓ 1]

NAME: TEES-SIDE CLEAN AIR COMMITTEE

ACRONYM:

See also GB.029

ADDRESS: Town Clerk's Office,
Municipal Buildings,
MIDDLESBOROUGH.

Tel.: 0642.45984

AFFIL: SCCB (GB.029)

Title	PERSONNEL	Function
	The Town Clerk	Secretary

AP aims and actions:

Recommends the setting-up of smoke control zones
Superintends the working of the smoke inspectors

Comments:

Composed of councillors from the different local authorities involved.

GB.015 Tees-side Clean Air Committee 6.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	016	REG	A [✓ B] C [✓ D] [✓ E] F	01 02 03 04 05	11 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	6.70	[redacted] S [✓ 1]

NAME: WARWICKSHIRE CLEAN AIR COUNCIL

ACRONYM:

See also GB.029

ADDRESS: Council House,
COVENTRY.

Tel.: 25555

AFFIL: SCCB (GB.029)

Title	PERSONNEL	Function
	The Town Clerk	Secretary

AP aims and actions:

Recommends the setting up of smoke control zones
Superintends the working of the smoke inspectors

Comments:

Composed of councillors from the local authorities involved.

GB.016 Warwickshire Clean Air Council 6.70

GB [redacted] 017 REG A ~~B~~ C ~~D~~ ~~E~~ F 01 02 03 04 05 11 12 13 14 15 21 22 ~~23~~ 24 25 31 32 33 34 35 ~~L~~ M S 1 ~~2~~ 3 6.70 [redacted] S ~~T~~
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: WEST BROMWICH CLEAN AIR COUNCIL

ACRONYM:

See also GB.029

ADDRESS: West Bromwich.Corporation,
P.O. Box No. 40,
Town Hall,
WEST BROMWICH.

Tel.:

AFFIL: SCCB (GB.029)

Title	PERSONNEL	Function
	The Town Clerk	Secretary

AP aims and actions:

Recommends the setting up of smoke control zones
Superintends the working of the smoke inspectors

Comments:

Composed mainly of councillors.

GB.017 West Bromwich Clean Air Council 6.70

GB [redacted] 018 REG A ~~B~~ C ~~D~~ ~~E~~ F 01 02 03 04 05 11 12 13 14 15 21 22 ~~23~~ 24 25 31 32 33 34 35 ~~L~~ M S 1 ~~2~~ 3 6.70 [redacted] S ~~T~~
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: WEST LANCASHIRE AND CHESHIRE REGIONAL SMOKE ABATEMENT COMM.

ACRONYM:

See also GB.029

ADDRESS: Health Department,
Hatton Garden,
LIVERPOOL 3.

Tel.: (051) 227.3911

AFFIL: SCCB (GB.029)

Title	PERSONNEL	Function
	Chief Public Health Inspector, Liverpool.	

AP aims and actions:

Recommends the setting-up of smoke control zones
Superintends the working of the smoke inspectors

Comments:

Composed of councillors from the local authorities involved.

GB.018 West Lancashire and Cheshire Regional Smoke Abatement Comm. 6.70

GB [redacted] 019 REG A B̸ C D̸ E̸ F 01 02 03 04 05 11 12 13 14 15 21 22 2̸3̸ 24 25 31 32 33 34 35 1̸ M S 1 2̸ 3 6.70 [redacted] S 1̸

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: WEST RIDING CLEAN AIR ADVISORY COUNCIL

ACRONYM:

See also GB.029

ADDRESS: Public Health Department,
25, East Parade,
LEEDS 1.

Tel.: 0532.30661

AFFIL.: SCCB (GB.029)

Title	PERSONNEL	Function
	Chief Public Health Inspector Leeds.	

AP aims and actions:

Recommends the setting up of smoke control zones
Superintends the working of the smoke inspectors

Comments:

Composed of councillors from the local authorities involved.

GB.019 West Riding Clean Air Advisory Council 6.70

GB [redacted] 029 NAT A B̸ C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 1̸ M S 1̸ 2 3 5.70 [redacted] S 1̸

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: STANDING CONFERENCE OF COOPERATING BODIES

ACRONYM: SCCB

See also GB.039

ADDRESS: Warren Spring Laboratory,
Gunnels Wood Road,
STEVENAGE,
Hertfordshire.

Tel.: 0438.3358

AFFIL.: Min. Tech.
SCCB

Title	PERSONNEL	Function
Mr.	J. Appleton	Secretary
	Chairman elected annually	

AP aims and actions:

To keep local authorities and other bodies informed of the latest developments in the field of air pollution and to provide a forum for the discussion of problems and developments.

Responsible for the operation of the National Survey of AP.

Analyses and reports on regional trends in AP prepared by Warren Spring Lab. (GB.039) for presentation at meetings.

Comments:

Composed principally of local authorities (represented by Public Health Inspectors) and other bodies (including industry) who cooperate in the National Survey of Air Pollution.

Meets twice yearly.

GB.029 Standing Conference of Cooperating Bodies 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	030	NAT	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 ~~15~~	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted] S ~~T~~

NAME: SCIENCE RESEARCH COUNCIL

ACRONYM: SRC

See also

ADDRESS: Static House,
High Holborn,
London W.C.1.

Tel.: 01.242.1262

AFFIL: Department of Education and Science.

Title	PERSONNEL	Function
Prof.	B. H. Flowers	Chairman
Mr.	W. L. Francis	Secretary

AP aims and actions:

Carries out and supports research in science and technology, including aspects of air pollution.
Financially supports postgraduate students working on air pollution.

Comments:

GB.030 Science Research Council (SRC) 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	031	NAT	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 ~~12~~ ~~13~~ ~~14~~ 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted] S ~~T~~

NAME: NATURAL ENVIRONMENT RESEARCH COUNCIL

ACRONYM: NERC

See also

ADDRESS: Alhambra House,
27/33 Charing Cross Road,
LONDON W.C.2.

Tel.: 01.930.9232

AFFIL: Department of Education and Science.

Title	PERSONNEL	Function
Prof.	V. C. Wynne-Edwards	Chairman
Mr.	R. J. H. Beverton	Secretary
Mr.	R. L. J. Wright	Information Officer

AP aims and actions:

To carry out research in earth sciences and ecology.
To encourage and support such research by other organisations.
To disseminate information and advice on such matters.

Comments:

GB.031 Natural Environment Research Council 5.70

GB	[redacted]	032	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: METEOROLOGICAL OFFICE: Special Investigations Branch

ACRONYM:

See also

ADDRESS: London Road,
BRACKNELL,
Berkshire.

Tel.: 0344.20242

AFFIL: Min. of Defence.

Title	PERSONNEL	Function
Mr.	R. F. Jones	Assistant Director (Met 09)
Dr.	F. Pasquill	Assistant Director (Met 014)
	E. N. Lawrence	

AP aims and actions:

Met 09 deals with special problems to do with air pollution - i.e. provision of meteorological data, collection of rainfall samples etc.
Met 014 studies turbulence and diffusion processes in the lower atmosphere.

Comments:

GB.032 Meteorological Office, Special Investigations Branch 5.70

GB	[redacted]	033	NAT	[✓ A] B C D E F	01 02 03 04 [✓ 05]	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	1 2 [✓ 3]	5.70	[redacted] S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: SAFETY IN MINES RESEARCH ESTABLISHMENT

ACRONYM:

See also

ADDRESS: Red Hill,
off Broad Lane,
SHEFFIELD 3.

Tel.: 78141

AFFIL: Ministry of Power

Title	PERSONNEL	Function
Mr.	H. T. Ramsey	Director.
Dr.	C. A. Wass	Director as from July '70.
Mr.	B. A. Maguire	Dust Physics Section Head.
Dr.	I. Bergman	Chemistry Section Head.

AP aims and actions:

Studies on the properties of fine dusts (0-10 microns) in mines. Development of personal samplers (gravimetric) for use in dusty atmospheres.
Development of instrumentation for the measurement of nitrogen oxides and oxygen.

Comments:

GB.033 Safety in Mines Research Establishment 5.70

GB	[redacted]	034	NAT	~~A~~ B C D E F	~~01~~ 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted]	S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: MEDICAL RESEARCH COUNCIL: AIR POLLUTION UNIT

ACRONYM: MRC

See also

ADDRESS: The Medical College,
St. Bartholemews Hospital
Charterhouse Square,
LONDON E.C.1.

Tel.:

AFFIL: Department of Education and Science.
01.253.1537

Title	PERSONNEL	Function
Prof.	P. J. Lawther	Director
Mr.	R. E. Waller	
Dr.	B. T. Commins	

AP aims and actions:

Investigations into the health effects of air pollution, particularly in relation to lung cancer and bronchitis. Particular attention is being paid to the effects of SO_2 and particulate matter (separately and together) and carbon monoxide.

Analysis of pattern of polynuclear aromatics in air with regard to service

Comments:

GB.034 Medical Research Council, Air Pollution Unit 5.70

GB	[redacted]	035	NAT	A ~~B~~ C D E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: NATIONAL INDUSTRIAL FUEL EFFICIENCY SERVICE

ACRONYM: NIFES

See also

ADDRESS: Abford House,
15 Wilton Road,
London S.W.1.

Tel.: 01.828.8241

AFFIL:

Title	PERSONNEL	Function
Mr.	S. C. Ginn	Managing Director
Mr.	Fraser Evans	Secretary
Mr.	C. A. J. Plummer	Engineering and Information

AP aims and actions:

Services include advice on the Clean Air Act requirements and the reduction of smoke and grit emission. Training and refresher courses for engineers and plant operators.

Comments:

GB.035 National Industrial Fuel Efficiency Service 5.70

GB	[redacted]	036	NAT	~~A~~ B C D E F	01 02 03 04 05	11 12 ~~13~~ 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: BUILDING RESEARCH STATION

ACRONYM:

See also

ADDRESS: Bucknalls Lane,
Garston,
WATFORD, Herts.

Tel.: Garston 4040

AFFIL: Min. of Public Buildings and Works.

Title	PERSONNEL	Function
Dr.	J. C. Weston	Director

AP aims and actions:

Studies of air pollution as one of the factors affecting the durability of building materials such as stone, concrete, paints, metals etc.
Studies of air movements around tall buildings.

Comments:

GB.036 Building Research Station 5.70

GB	[redacted]	037	NAT	~~A~~ B C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: MICROBIOLOGICAL RESEARCH ESTABLISHMENT

ACRONYM: MRE

See also

ADDRESS: Porton Down,
SALISBURY,
Wiltshire.

Tel.: Idmiston 391

AFFIL: Ministry of Defence (Army Department).

Title	PERSONNEL	Function
Dr.	C. E. G. Smith	Director

AP aims and actions:

Studies on the effects of pollutants (particularly photochemical products) on micro organisms.

Comments:

GB.037 Microbiological Research Establishment 5.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
GB [redacted]	038	NAT	[✓ A] B C D E F	01 02 03 04 [✓ 05]	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	5.70	[redacted]	S	T

NAME: CHEMICAL DEFENCE EXPERIMENTAL ESTABLISHMENT

ACRONYM: CDEE

See also

ADDRESS: Porton Down,
SALISBURY,
Wiltshire.

Tel.: Idmiston 211

AFFIL: Ministry of Defence
(Army Department)

Title	PERSONNEL	Function
Mr.	E. E. Hadden	Director

AP aims and actions:

Studies means of protection against dust and toxic hazards in industry and includes medical research on the effects of toxic compounds.

Comments:

GB.038 Chemical Defence Experimental Establishment 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
GB [redacted]	039	NAT	[✓ A] [✓ B] C [✓ D] E F	01 [✓ 02] 03 04 05	11 12 13 14 [✓ 15]	21 [✓ 22] 23 [✓ 24] [✓ 25]	[✓ 31] 32 [✓ 33] 34 35	[✓ L] M S	[✓ 1] 2 3	5.70	[redacted]	[✓ S]	[✓ T]

NAME: WARREN SPRING LABORATORY

ACRONYM: WSL

See also GB.029, 047, 137

ADDRESS: Gunnels Wood Road,
STEVENAGE,
Hertfordshire.

Tel.: 3388

AFFIL: Ministry of Technology

Title	PERSONNEL	Function
Dr.	A. J. Robinson	Director
Dr.	S. R. Craxford	Head of AP Dept.
Dr.	L. E. Reed	
Dr.	D. Gall	
	+ 6P + 10NP	

AP aims and actions:

Interest in all aspects of AP with responsibility to advise Govt. on problems and remedial actions:

1) Distribution pattern of pollution in towns;
2) National Survey of AP (GB.029)
3) Accuracy and reliability of methods of measurement;
4) Study of Atmospheric Chemistry;
5) Drift of pollution;

+ others.

Comments:

Many projects contracted out or in cooperation with other labs:

1) See Sheffield Univ.(GB.135)
2) in cooperation with Local Authorities and industy.
4) See AERE.(GB.047)

GB.039 Warren Spring Laboratory 5.70

GB [redacted]	040	NAT	~~A~~ ~~B~~ C ~~D~~ ~~E~~ F	01 02 ~~03~~ ~~04~~ ~~05~~	~~11~~ 12 13 14 15	21 ~~22~~ ~~23~~ 24 25	31 32 33 34 35	L ~~M~~ S	1 2 ~~3~~	5.70	[redacted] S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: FACTORY INSPECTORATE, CHEMICAL BRANCH

ACRONYM:

See also

ADDRESS: Baynard's House,
1-13 Chepstow Place,
Westbourne Grove,
LONDON W.2

Tel.: (01) 229.3456

AFFIL.:

Title	PERSONNEL	Function
Mr.	S.G. Luxon	Deputy senior chemical inspector

AP aims and actions:

Development of methods of measuring low concentrations of gases. Determination of the accuracy and reliability of gas detector tubes.

Comments:

Active mainly in industrial hygiene; no direct activity in atmospheric pollution.

GB.040 Factory Inspectorate, Chemical Branch 5.70

GB [redacted]	041	NAT	~~A~~ B C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 2 ~~3~~	5.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: FORESTRY COMMISSION

ACRONYM:

See also

ADDRESS: Alice Holt Res. Station,
Wrecclesham,
FARNHAM,
Surrey.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
	A. Watt	director of research
	J. R. Thom	
	A. Bewstein	(Edinburgh)

AP aims and actions:

Effects of AP on trees in heavily polluted areas - correlation with Zn corrosion measurements.

Comments:

GB.041 Forestry Commission 5.70

GB [redacted] 042 NAT [✓ A] B C D E F 01 02 [✓ 03] 04 [✓ 05] [✓ 11] 12 13 14 15 21 [✓ 22] 23 24 25 31 32 33 34 35 L M [✓ S] 1 [✓ 2] 3 5.70 [redacted] S [✓ X]
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LABORATORY OF THE GOVERNMENT CHEMIST

ACRONYM:

See also GB.005, 040, 042

ADDRESS:
Cornwall House,
Stamford Street,
LONDON S.E.1.

Tel.:

AFFIL.: Ministry of Technology.

Title	PERSONNEL	Function
Dr.	D. T. Lewis	Government Chemist

AP aims and actions:

Examination of materials and particulate matter for asbestos and free silica on behalf of the Factory Inspectorate (GB.042).
Development of simple field tests for toxic substances in the atmosphere for the Factory Inspectorate (GB.040)
Examination of factory chimney emissions for toxic elements (fluorine, arsenic, antimony, chromium, lead, and others) on behalf of the Alkali Inspectorate (GB.005)

Comments:

Official reference laboratory for all disputes.

GB.042 Laboratory of the Government Chemist 5.70

GB [redacted] 043 NAT [✓ A] B C D E F [✓ 01] 02 03 04 [✓ 05] 11 12 13 14 15 21 22 23 24 25 31 [✓ 32] 33 [✓ 34] 35 L M [✓ S] 1 2 [✓ 3] 5.70 [redacted] S [✓ X]
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: NATIONAL GAS TURBINE ESTABLISHMENT

ACRONYM: NGTE

See also

ADDRESS:
Pyestock,
FARNBOROUGH,
Hampshire.

Tel.: 1350

AFFIL.: Ministry of Technology.

Title	PERSONNEL	Function
Mr.	R. H. Weir	Director

AP aims and actions:

Research into the reduction of noise and smoke from gas turbine engines.

Comments:

GB.043 National Gas Turbine Establishment 5.70

GB	[redacted]	044	NAT	[✓ A] B C D E F	01 [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	5.70	[redacted]	S /
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: NATIONAL PHYSICAL LABORATORY

ACRONYM: NPL

See also GB.034

ADDRESS: TEDDINGTON,
Middlesex.

Tel.:

AFFIL.: Ministry of Technology.

Title	PERSONNEL	Function
Mr.	J. V. Dunworth	Director
Mr.	R. C. Pankhurst	Supt. Aerodynamics Divn.
	P. W. Bearman	

AP aims and actions:

Use of wind tunnel in designing buildings and chimneys to ensure adequate dispersion.

Development of noise measurement techniques for subsonic aircraft near airports.

Work on the effects of prolonged exposure to noise in conjunction with the Medical Research Council (GB.034)

Comments:

GB.044 National Physical Laboratory. 5.70

GB	[redacted]	045	NAT	[✓ A] [✓ B] C D E F	01 02 03 04 [✓ 05]	11 12 13 14 15	21 22 23 24 25	31 32 33 [✓ 34] 35	L M [✓ S]	1 2 [✓ 3]	5.70	[redacted]	S /
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: NATIONAL ENGINEERING LABORATORY

ACRONYM: NEL

See also

ADDRESS: East Kilbride,
GLASGOW.

Tel.: East Kilbride 20222

AFFIL.: Ministry of Technology.

Title	PERSONNEL	Function
Mr.	F. D. Penny	Director
Mr.	C. P. Rigby	Superintendent, Machinery Group.

AP aims and actions:

Research on the reduction of noise in machines.

Comments:

GB.045 National Engineering Laboratory 5.70

GB	[redacted]	047	REG	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: LONDON TRANSPORT BOARD: Research Department

ACRONYM:

See also

ADDRESS: 566 Chiswick High Road,
LONDON W.4.

Tel.: 01.944.3641

AFFIL:

Title	PERSONNEL	Function
Mr.	H. E. Styler	Director of Research

AP aims and actions:

Studies of the factors contributing to vehicle noise, exhaust smoke emission and methods of abatement.

Comments:

GB.047 London Transport Board, Research Department 5.70

GB	[redacted]	048	REG	~~A~~ ~~B~~ C ~~D~~ E F	~~01~~ ~~02~~ 03 04 ~~05~~	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	5.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: GREATER LONDON COUNCIL SCIENTIFIC BRANCH

ACRONYM: GLC

See also

ADDRESS: The County Hall,
LONDON S.E.1.

Tel.: 01.633.5000

AFFIL:

Title	PERSONNEL	Function
Dr.	S. G. Burgess	Scientific Adviser

AP aims and actions:

Measurements and research into air pollution and noise, including radioactive contamination and heating and ventilating problems. Studies of pollution in relation to high buildings and problems of traffic pollution in tunnels.

Acts on a consultative basis for all departments of the Council, London Borough Councils and other local authorities.

Comments:

Close liaison maintained with Mintech and other laboratories.

GB.048 Greater London Council Scientific Branch 5.70

GB	[redacted]	050	ASN	~~A~~	~~B~~	C	~~D~~	E	F	01	~~02~~	03	~~04~~	~~05~~	11	12	13	14	15	21	~~22~~	23	24	25	~~31~~	~~32~~	~~33~~	~~34~~	35	~~L~~	M	S	1	~~2~~	3	5.70	[redacted]	~~5~~	~~1~~
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: BRITISH COAL UTILISATION RESEARCH ASSOCIATION

ACRONYM: BCURA

See also

ADDRESS: BCURA Industrial Laboratories,
Randalls Road,
LEATHERHEAD,
Surrey.

Tel.: 01.537.4411

AFFIL:

Title	PERSONNEL	Function
Dr.	G. G. Thurlow	Director of Industrial Research and Services

AP aims and actions:

Undertake on-site measurements of grit, dust and gaseous emissions and of liquid effluents.

Special expertise in combustion appliances, incineration, and pollution problems.

Comments:

Services undertaken by means of confidential contracts.

GB.050 British Coal Utilisation Research Association 5.70

GB	[redacted]	051	ASN	~~A~~ ~~B~~ C D E F	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: BRITISH COKE RESEARCH ASSOCIATION

ACRONYM: BCRA

See also

ADDRESS: CHESTERFIELD,
Derbyshire.

Tel.: 76821

AFFIL:

Title	PERSONNEL	Function
Mr.	G. W. Lee	Director
Mr.	D. G. Edwards	Information Officer

AP aims and actions:

Investigation of air pollution problems around coke-oven plants.

Development of methods for the identification of dust and grit sources and the measurement of smoke, dust and noxious gases from coking plants.

Courses are run for training operators and staff in the minimisation of smoke during oven charging.

Comments:

GB.051 British Coke Research Association 5.70

GB	[redacted]	052	ASN	~~A~~ ~~B~~ C D E F	01 02 03 ~~04~~ 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ ~~36~~	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: BRITISH CERAMIC RESEARCH ASSOCIATION

ACRONYM: B CERAM RA

See also

ADDRESS: Queens Road,
Penkhull,
STOKE-ON-TRENT.

Tel.: 45431

AFFIL:

Title	PERSONNEL	Function
Dr.	F. N. Astbury	Director

AP aims and actions:

Study of problems of smoke and fume emissions from kilns; particularly smoke from the firing of blue bricks, the reduction of acid soot and fume from brick kilns, and fluorine emissions from pottery kilns.

Comments:

GB.052 British Ceramic Research Association 5.70

GB	[redacted]	053	ASN	~~A~~ ~~B~~ C ~~D~~ E F	01 02 03 ~~04~~ 05	11 12 ~~13~~ 14 15	21 22 23 24 25	31 32 ~~33~~ ~~34~~ 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted] S ~~T~~
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: BRITISH IRON AND STEEL RESEARCH ASSOCIATION

ACRONYM: BISRA

See also

ADDRESS: 24 Buckingham Gate,
LONDON S.W.1.

Tel.: 01.828.7931

AFFIL:

Title	PERSONNEL	Function
Sir	Charles Godeve	Director
Dr.	Klemontaski	Battersea Research Laboratories.

AP aims and actions:

Monitoring of dust emissions around steelworks.
Development of improved methods of dust collection.
Studies of corrosion by sulphur oxides and fluorides.
Studies of fume suppression and reduction of sulphur emissions in steel-making operations.

Comments:

GB.053 British Iron and Steel Research Association 5.70

GB	[redacted]	054	ASN	A ~~B~~ C D ~~E~~ ~~F~~	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ ~~33~~ 34 35	~~L~~ M S	1 2 ~~3~~	5.70	[redacted] S T
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: INSTITUTE OF FUEL

ACRONYM:

See also

ADDRESS: 18 Devonshire Street,
LONDON W.1.

Tel.: 01.580.7124

AFFIL:

Title	PERSONNEL	Function
Dr.	Potter	President
Mr.	R. Jackson	Secretary

AP aims and actions:

General interest in air pollution and its control as it affects the fuel industries. Papers on pollution and pollution control frequently published in its 'Journal'.

Comments:

Probable formation of Pollution Working Group in the near future.

GB.054 Institute of Fuel 5.70

GB	[redacted]	055	ASN	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ ~~25~~	~~31~~ ~~32~~ ~~33~~ 34 35	~~L~~ M S	1 ~~2~~ 3	9.70	[redacted] S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: INSTITUTE OF PETROLEUM: Atmospheric Pollution Committee

ACRONYM: IP

See also X.008

ADDRESS: 61 New Cavendish Street,
LONDON W.1.

Tel.: 01.636.1004

AFFIL:

Title	PERSONNEL	Function
Mr.	C. J. Moorhouse	Chairman (Shell)
Dr.	J. P. Allinson	Secretary

+ representatives of major GB oil companies

AP aims and actions:

To deal with air pollution problems affecting the oil industry and to initiate research into problems of interest.

Have made measurements of benzene concentrations around around gasoline handling plants.

Comments:

Cooperates closely with CONCAWE (X.008)

GB.055 Institute of Petroleum, Atmospheric Pollution Committee 9.70

GB	[redacted]	056	ASN	~~A~~ ~~B~~ C ~~D~~ E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 ~~32~~ 33 34 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted] S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: THE HEATING AND VENTILATING RESEARCH ASSOCIATION

ACRONYM: HVRA

See also

ADDRESS: Old Bracknell Lane,
BRACKNELL,
Berkshire.

Tel.: 0344.5071

AFFIL:

Title	PERSONNEL	Function
Mr.	N. S. Billington	Director
Mr.	L. Crookes	Secretary

AP aims and actions:

Development and testing of domestic heating appliances with reference to the emission of smoke, unburned hydrocarbons and other pollutants.

Comments:

Undertakes work for DOBETA (GB.058).

GB.056 The Heating and Ventilating Research Association 5.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
GB [redacted]	057	ASN	A ~~B~~ C D E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	~~L~~ M S	1 2 ~~3~~	5.70	[redacted]	S	T

NAME: INSTITUTION OF HEATING AND VENTILATING ENGINEERS.

ACRONYM: IHVE

See also

ADDRESS: 69 Cadogan Square,
LONDON S.W.1.

Tel.: 01.235.7671

AFFIL:

Title	PERSONNEL	Function
Dr.	F. A. Tayler	Study Group Chairman

AP aims and actions:

Institute has a study group currently active on pollution - how indoor atmospheres can be kept clean and the use of air conditioning to improve the interior environment.

Comments:

GB.057 Institution of Heating and Ventilating Engineers 5.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
GB [redacted]	058	ASN	~~A~~ ~~B~~ C ~~D~~ E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted]	S	~~T~~

NAME: DOMESTIC OIL BURNING EQUIPMENT TESTING ASSOCIATION LIMITED.

ACRONYM: DOBETA

See also GB.056

ADDRESS: 3 Savoy Place,
Victoria Embankment,
LONDON W.C.2.

Tel.: 01.438.3370

AFFIL: (DHL to check)

Title	PERSONNEL	Function
Mr.	W. Don	Secretary

AP aims and actions:

Preparation and adoption of standards for all types of domestic oil burning appliances including smoke and hydrocarbon emission.
Testing of such appliances.
Issue of seals of approval for satisfactory appliances.

Comments:

Set up as independent testing body by major oil companies.
Test facility at Heating and Ventilating Research Association Bracknell. (GB.056)

GB.058 Domestic Oil Burning Equipment Testing Association Limited 5.70

GB	[redacted]	059	IND	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	~~L~~ M S	1 2 ~~3~~	5.70	[redacted] S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: BRITISH INTERNAL COMBUSTION ENGINE RESEARCH ASSOCIATION

ACRONYM: BICERA

See also

ADDRESS:
111 Buckingham Avenue,
SLOUGH,
Buckinghamshire

Tel.: 27371

AFFIL:

Title	PERSONNEL	Function
Dr.	W. P. Mansfield	Director of Research
Mr.	E. J. Nestorides)	
Mr.	L. H. Thorney-croft)	Joint Directors of Research from July 70.

AP aims and actions:

Work undertaken under contract for engine manufacturers. Includes exhaust analysis.

Comments:

All research is confidential

GB.059 British Internal Combustion Engine Research Association 5.70

GB	[redacted]	060	ASN	~~A~~ ~~B~~ C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted] S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: THE MOTOR INDUSTRY RESEARCH ASSOCIATION

ACRONYM: MIRA

See also GB.051

ADDRESS:
Lindley,
NUNEATON,
Warwickshire.

Tel.: 323664

AFFIL:

Title	PERSONNEL	Function
Mr.	R. Macmillan	Director
Mr.	R. Fosberry	Assistant director

AP aims and actions:

Development and testing of low-emission petrol engines.

Comments:

Work is carried out on commission from members of the Association (motor manufacturers) or the British Technical Council (GB.051)

GB.060 The Motor Industry Research Association 5.70

GB [redacted] 062 ASN A ~~B~~ C D E ~~F~~ ~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~ 11 12 13 14 ~~15~~ 21 22 23 24 25 ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~L~~ M S 1 2 ~~3~~ 5.70 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CONFEDERATION OF BRITISH INDUSTRY

ACRONYM: CBI

See also:

ADDRESS: 21 Tothill Street,
LONDON S.W.1.

Tel: (01) 930.6711

AFFIL:

Title	PERSONNEL	Function
Mr.	J. Gough	Secretary

AP aims and actions:

To advise member industries on the implications of regulations.

To put the views of industry to government; problems raised by members are discussed by panels of experts from various industries.

Comments:

Employers group.

GB.062 Confederation of British Industry 5.70

GB [redacted] 061 ASN ~~A~~ ~~B~~ C D E F ~~01~~ 02 03 04 05 11 12 13 14 15 21 22 23 24 25 ~~31~~ ~~32~~ 33 34 35 ~~L~~ M S 1 ~~2~~ 3 5.70 [redacted] S ~~T~~

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BRITISH TECHNICAL COUNCIL OF THE MOTOR AND PETROLEUM INDS.

ACRONYM: BTC

See also: GB.055 GB.060

ADDRESS: c/o MIRA,
Lindley,
NUNEATON,
Warwickshire.

Tel: 329664

AFFIL: IP (GB.055)
SMMT

Title	PERSONNEL	Function
Mr.	R. Fosberry	Chairman, AP Coord'g Cttee (MIRA - GB.060).
Mr.	J. Beddy	Long-term WG (Mobil GB.087)
Mr.	T. Atkinson	Short-term WG (Chrysler - GB.079).
Mr.	J. Dolton	Anal. WG (Lucas - GB 081)
Mr.	V. Lamorque	(Castrol - GB 075).

AP aims and actions:

To provide a forum for the exchange of ideas between participating companies.

To act as a "post-office" for passing information on legislation, both British and foreign.

To make recommendations to MIRA (GB.060) for research topics.

To develop analytical methods and techniques for exhaust emissions.

Comments:

Joint organization of Institute of Petroleum (GB.055) and Society of Motor Manufacturers and Traders.

Has three AP WG's: for long-term, short-term and analytical projects.

GB.061 British Technical Council of the Motor and Petroleum Industries 5.70

GB [redacted]	063	ASH	~~A~~ B C D E F	01 02 03 04 ~~05~~	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~S~~ M L	1 ~~2~~ 3	6.70	[redacted] 5 7
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: INSTITUTE OF OCCUPATIONAL MEDICINE

ACRONYM:

See also

ADDRESS: Roxburgh Place,
EDINBURGH.

Tel.:

AFFIL.: Nat. Coal Board
Univ. of Edinburgh

Title	PERSONNEL	Function
Dr.	J.M. Rogan	director
Dr.	R.J. Hamilton	
Dr.	H. Walton	

AP aims and actions:

Evaluation of health effects of environmental dust on coal miners (esp. pneumoconiosis).

Particle sizing and analysis of (mine) dust; development of original thermal precipitator and of standard MRC Gravimetric Sampler.

Comments:

Centralisation of medical research of Nat. Coal Board.

Undertakes hygiene work on commission from other organisations.

GB.063 Institute of Occupational Medicine 6.70

GB [redacted] 017 ATC A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted]

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: SOCIETY OF MEDICAL OFFICERS OF HEALTH:
Environmental Committee

ACRONYM:

See also

ADDRESS:

Tel: 01.790.1515

AFFIL:

Title	PERSONNEL	Function
Dr.	W. C. Turner	Secretary

AP aims and actions:

Deals with all matters concerning pollution brought forward by the Medical Officers.

Comments:

No practical work in hand at present time but can instigate remedial health action through local officers.

GB.017 Society of Medical Officers of Health 5.70

GB [redacted] 062 ATC A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted]

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: ASSOCIATION OF PUBLIC HEALTH INSPECTORS

ACRONYM: APHI

See also

ADDRESS: 19 Grosvenor Place,
LONDON S.W.1.

Tel: 01.235.5158

AFFIL:

Title	PERSONNEL	Function
Mr.	R. Johnson	Secretary

AP aims and actions:

A sub-committee of the Legal and Parliamentary Committee of the Association deals specifically with all air pollution problems affecting the public health service.

Comments:

GB.062 Association of Public Health Inspectors 5.70

GB [redacted] 073 [illegible] 5.70 [redacted]

Country | No | Type | Functions | Sources | Effects | Controls | Remarks | Size | Status | Date

NAME: ROYAL INSTITUTE OF PUBLIC HEALTH AND HYGIENE

ACRONYM:

See also

ADDRESS: 28 Portland Place,
LONDON W.1.

Tel: 01.580.2731

AFFIL:

Title	PERSONNEL	Function
Mr.	A. R. Cureton	

AP aims and actions:

General interest in air pollution as it affects public health. Interest fostered by lectures and exhibitions at the Institute.

Comments:

GB.073 Royal Institute of Public Health and Hygiene 5.70

GB [redacted] 070 [illegible] 5.70 [redacted]

Country | No | Type | Functions | Sources | Effects | Controls | Remarks | Size | Status | Date

NAME: UK ATOMIC ENERGY AUTHORITY: Atomic Energy Research Establishment

ACRONYM: AERE

See also GB.071

ADDRESS: Health Physics and Medical Division,
Harwell,
DIDCOT, Berkshire.

Tel: Abingdon 4141

AFFIL: Mintech - Warren Spring Laboratory. (GB.079)

Title	PERSONNEL	Function
Dr.	W. Marshall	Director
Mr.	N. G. Stewart	Division Head
Mr.	A. C. Chamberlain	
Dr.	A. E. J. Eggleton	

AP aims and actions:

Investigation of the composition of mists in an industrial area of North-East England. Development of sampling methods for particulates and SO_2, and analysis of inorganic constituents.
Laboratory studies of atmospheric chemistry of SO_2 including reactions with ammonia, particulate aerosols and exposed surfaces.
Continuous monitoring of radioactive fallout.

Comments:

GB.070 UK Atomic Energy Authority: Atomic Energy Research Est. 5.70

GB [redacted] 071 TSD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S T

Country | No | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: BRITISH RAILWAYS RESEARCH DEPARTMENT
Regional Scientific Services Division

ACRONYM:

See also

ADDRESS: London Road,
DERBY.

Tel: 42442

AFFIL:

Title	PERSONNEL	Function
Mr.	S. Bairstow	Director

AP aims and actions:
Continuous research is being carried out on the cleaning of rails, electrical contents etc, with particular reference to contamination by grit and dust deposits.

Comments:
Monitoring of workshops and stations is undertaken on request from the Section concerned.

GB.071 British Railways Research Department 5.70

GB [redacted] 077 TSD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 F 50 S 1 F 3 5.70 [redacted] S F

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: BRITISH LEYLAND MOTOR CORPORATION

Automotive Emissions Research Panel

ACRONYM: BLMC

See also

ADDRESS: Jaguar Cars Ltd.,
COVENTRY.

Tel: 020.330.2121

AFFIL:

Title	PERSONNEL	Function
Mr.	W. Hassan	Chairman,
	+ 12 other members from other parts of BLMC, see over.	

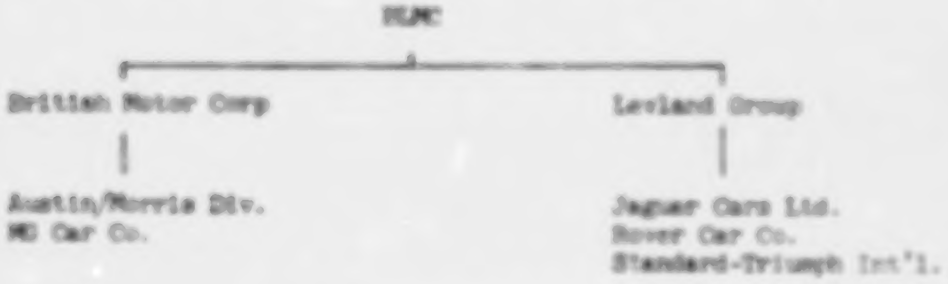
AP aims and actions:

Studies on the reduction of emissions from internal combustion engines, by improved design and altered running conditions.

Comments:

GB.077 British Leyland Motor Corporation 5.70 F

GB 077 British Leyland Motor Corporation 5.70


BLMC
British Motor Corp
Leyland Group
Austin/Morris Div.
MG Car Co.
Jaguar Cars Ltd.
Rover Car Co.
Standard-Triumph Int'l.

GB [redacted] 073 TED A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S F
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: FORD MOTOR COMPANY LIMITED (GREAT BRITAIN)

ACRONYM:

See also

ADDRESS: Engineering and Research
Centre,
Laindon,
BASILDON,
Essex.

Tel: 415947

AFFIL: Ford USA

Title	PERSONNEL	Function
Mr.	E. T. Driscoll	Project Engineer

AP aims and actions:

Studies on the reduction of emissions from automotive engines by changes in design or running conditions.

Comments:

GB.073 Ford Motor Company Limited (Great Britain) 5.70

GB [redacted] 074 TED A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S F
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VAUXHALL MOTOR COMPANY LIMITED

ACRONYM:

See also

ADDRESS: LUTON,
Bedfordshire.

Tel: 21177

AFFIL: General Motors

Title	PERSONNEL	Function
Mr.	I. McEwan	Project Engineer

AP aims and actions:

Studies on the reduction of automotive emissions by changes in design or running conditions.

Comments:

GB.074 Vauxhall Motor Company Limited 5.70

GB [redacted] 075 TND [✓ A] B C D E [✓ F] [✓ 01] 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 [✓ 32] 33 [✓ 34] 35 L [✓ M] S 1 [✓ 2] 3 5.70 [redacted] S [✓ T]

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: ROLLS ROYCE LIMITED

ACRONYM:

See also

ADDRESS:
Pym's Lane,
CREWE,
Cheshire.

Tel.: 55155

AFFIL:

Title	PERSONNEL	Function
Mr.	J. Astbury	Project Engineer

AP aims and actions:

Studies on the reduction of emissions from automotive engines by changes in design or running conditions.

Comments:

GB.075 Rolls Royce Limited 5.70

GB [redacted] 076 TND [✓ A] B C D E F [✓ 01] 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 [✓ 32] 33 34 35 L [✓ M] S 1 [✓ 2] 3 5.70 [redacted] S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: ZENITH CARBURETTOR COMPANY LIMITED
Engineering Research and Applications.

ACRONYM: ERA

See also

ADDRESS:
London Road,
DUNSTABLE,
Bedfordshire.

Tel.: 62301

AFFIL:

Title	PERSONNEL	Function
Mr.	J. Wisdom	Director

AP aims and actions:

Studies on the reduction of emissions from automotive engines by modifications to carburettor and induction manifold design.

Comments:

GB.076 Zenith Carburettor Company Limited 5.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
GB [redacted]	077	IND	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 ~~34~~ 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted]	S ~~T~~

NAME: RICARDO AND COMPANY LIMITED

ACRONYM:

See also

ADDRESS: Bridge Works,
SHOREHAM-BY-SEA,
Sussex

Tel.: 2231

AFFIL:

Title	PERSONNEL	Function
Mr.	D. Downs	Managing Director

AP aims and actions:

Studies on the reduction of emissions from automotive sources. Research is carried out on contract from manufacturers etc.

Comments:

Much work is confidential.

GB.077 Ricardo and Company Limited 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
GB [redacted]	078	IND	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 ~~34~~ 35	L ~~M~~ S	1 ~~2~~ 3	5.70	[redacted]	S ~~T~~

NAME: ASSOCIATED OCTEL LIMITED

ACRONYM: Octel

See also

ADDRESS: Engine Laboratories,
Watling Street,
BLETCHLY,
Buckinghamshire.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	V. Lamarque	Director

AP aims and actions:

Studies of engine design parameters which affect emissions from petrol engines, especially particulates.

Comments:

GB.078 Associated Octel Limited 5.70

GB	[redacted] 079	TND	~~A~~ B C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted]	S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: CHRYSLER (UK) LIMITED *

ACRONYM:

See also

ADDRESS: Humber Road,
COVENTRY

Tel.: 52144

AFFIL: Chrysler USA

Title	PERSONNEL	Function
Mr.	T. Turner	project engineer

AP aims and actions:

Studies on the reduction of emissions from automotive engines by changes in design or running conditions.

Comments:

* Late: Rootes Motors Ltd.

GB.079 Chrysler (UK) Limited 5.70

GB	[redacted] 080	IND	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L ~~M~~ S	1 2 ~~3~~	5.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: PETROL INJECTION LIMITED

ACRONYM:

See also

ADDRESS: Valley Road,
PLYMPTON,
Devonshire.

Tel.: Plymouth 36661

AFFIL: Tecalemit Ltd.

Title	PERSONNEL	Function
Mr.	J. B. Jackson	Research Director

AP aims and actions:

Study on the influence of petrol injection on automotive emissions.

Comments:

GB.080 Petrol Injection Limited 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
GB [redacted]	081	TND	~~A~~ B C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 ~~34~~ 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted]	S	~~1~~

NAME: JOSEPH LUCAS LIMITED

ACRONYM:

See also

ADDRESS: The Radleys,
Marston Green,
BIRMINGHAM 33.

Tel.: 021.779.2281

AFFIL:

Title	PERSONNEL	Function
Mr.	J. Soltau	

AP aims and actions:
Studies on the reduction of emissions from automotive sources by petrol injection and ignition changes.

Comments:

GB.081 Joseph Lucas Limited 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
GB [redacted]	082	TND	A ~~B~~ C ~~D~~ E ~~F~~	01 ~~02~~ ~~03~~ 04 ~~05~~	11 12 13 14 ~~15~~	21 22 23 ~~24~~ 25	~~31~~ ~~32~~ 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S	~~1~~

NAME: ESSO PETROLEUM COMPANY, Fawley Refinery

ACRONYM:

See also

ADDRESS: Fawley Refinery,
SOUTHAMPTON.

Tel.: 29911

AFFIL: SONJ

Title	PERSONNEL	Function
Mr.	S. Vowles	Manager
Mr.	P. Sutton	Senior Engineer for pollution

AP aims and actions:
Minimisation of refinery impact on neighbourhood in terms of noise, smell, SO_2 etc.
Responsible for advising other U.K. Esso refineries where no specialist knowledge available.

Comments:
Considerable expertise on noise reduction from refineries.

GB.082 Esso Petroleum Company, Fawley Refinery 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
GB [redacted]	083	IND	~~A~~ ~~B~~ C D E F	~~01~~ ~~02~~ 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ ~~25~~	~~31~~ ~~32~~ 33 ~~34~~ 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted]	S [illegible]

NAME: ESSO PETROLEUM COMPANY, Research Centre

ACRONYM:

See also X.008 GB.055 GB.061

ADDRESS: ABINGDON,
Berkshire.

Tel.: 1600

AFFIL: SONJ

Title	PERSONNEL	Function
Dr.	P. J. Agius	Director
Dr.	G. L. Johnes	Section Head
Mr.	H. I. Fuller	
Mr.	G. P. Richard	
Dr.	G. Moss	
	4P + 8NP	

AP aims and actions:

Effects of gasoline quality and engine modifications on automotive emissions.
Studies of dispersion of gases from multistack sources
Contribution of oil fuels to urban pollution levels.
Reduction of sulphur oxides emissions from oil fuels by means of a chemically active fluid bed.

Comments:

Bears European responsibility for industrial emissions.
Active participants in CONCAWE (X.008), IP (GB.055) and BTC (GB.061).

GB.083 Esso Petroleum Company, Research Centre 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
GB [redacted]	084	IND	~~A~~ ~~B~~ C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	~~31~~ 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S [illegible]

NAME: BRITISH PETROLEUM COMPANY LIMITED, RESEARCH CENTRE

ACRONYM:

See also X.008 GB.055 GB.061

ADDRESS: Chertsey Road.
SUNBURY-ON-THAMES,
Middlesex.

Tel.: 85533

AFFIL:

Title	PERSONNEL	Function
Dr.	J. N. Haresnape	Manager
Mr.	L. R. Beynon	
Mr.	K. G. Marsh	

AP aims and actions:

Examination of emissions from gasoline - and diesel engined vehicles.
Limited examination of industrial emissions.
Limited study of drift of pollution across N. Sea.

Comments:

Have worked on diffusion of pollution in towns.

Active participants in CONCAWE (X.008), IP (GB.055) and BTC (GB.061)

GB.084 British Petroleum Company Ltd., Research Centre 5.70

GB.086 Shell Research Ltd., Central Laboratories 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	085	IND	~~A~~ B C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	L ~~M~~ S	1 ~~2~~ 3	5.70	[redacted] S [illegible]

NAME: SHELL RESEARCH LTD., Thornton Research Centre

ACRONYM:

See also GB.072 GB.086

ADDRESS: Thornton Research Centre,
P.O. Box 1,
CHESTER.

Tel: 051.355.3755

AFFIL:

Title	PERSONNEL	Function
Dr.	N. Kendall	Development Director
Mr.	R. Lindsay	
Mr.	I. Robinson.	

AP aims and actions:

Studies of factors governing emissions from automotive sources to define role of fuel quality.

Development of rapid-response analysers, incl. flame ionisation detectors for hydrocarbons.

Studies of nitrogen oxides formation in flames; theory and practice of reduction.

Comments:

Have research agreement with BLMC (GB.072).

Active participants in CONCAWE (X.008), IP (GB.055), and BTC (GB.061).

GB.085 Shell Research Ltd., Thornton Research Centre 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	086	IND	~~A~~ B C D E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	~~31~~ ~~32~~ 33 34 35	L ~~M~~ S	1 ~~2~~ 3	5.70	[redacted] S [illegible]

NAME: SHELL RESEARCH LTD, Central Laboratories

ACRONYM:

See also GB.085

ADDRESS: Whitewall Lane,
EGHAM,
Surrey.

Tel.: 4422

AFFIL:

Title	PERSONNEL	Function
Mr.	N. P. Skerrett	

AP aims and actions:

Development of improved combustion equipment for gaseous and liquid fuels.

Studies of influence of fuel quality on emissions from domestic and industrial combustion equipment.

Development of flue gas analysis equipment.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	087	TND	[✓ A] B C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 34 35	L [✓ M] S	1 2 3	5.70	[redacted] S [✓ T]

NAME: MOBIL OIL CO. LTD., Research and Tech. Services Lab.

ACRONYM:

See also X.008, GB.055, GB.061

ADDRESS: Coryton,
STANFORD-LE-HOPE,
Essex.

Tel.: 3355

AFFIL:

Title	PERSONNEL	Function
Mr.	J.B. Berkeley	manager (London)
Mr.	I.D. Burns	i/c AP
Mr.	J.H. Boddy	adviser on A/AP

AP aims and actions:

Studies of exhaust gas recirculation and the related effects of fuel quality on vehicle exhaust emissions.

Comments:

Active participants in CONCAWE (X.008), IP (GB 055) and BTC (GB.061).

GB.087 Mobil Oil Co. Ltd., Research and Tech Services Lab. 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	088	TND	A [✓ B] C D E F	01 [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 34 35	L [✓ M] S	1 2 [✓ 3]	5.70	[redacted] S T

NAME: DOMESTIC SOLID FUEL APPLIANCES APPROVAL COUNCIL

ACRONYM:

See also GB.087 GB.089

ADDRESS: 19 Rochester Row,
LONDON S.W.1.

Tel.: 01.834.2339

AFFIL: National Coal Board

Title	PERSONNEL	Function
Mr.	R. Godliman	

AP aims and actions:

To test and approve installations for burning solid fuels including the compilation of a list of installations fulfilling requirements for smokeless zone operation.

Comments:

GB.088 Domestic Solid Fuel Appliances Approval Council 5.70

GB 089 TND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 S

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: NATIONAL COAL BOARD: Coal Research Establishment

ACRONYM: NCB

See also

ADDRESS: Stoke Orchard,
CHELTENHAM,
Gloucestershire.

Tel: Bishops Cleeve 2041

AFFIL:

Title	PERSONNEL	Function
Dr.	R. H. Gordon	

AP aims and actions:

Research into processes for the production of smokeless solid fuels from coal.

Comments:

GB.089 National Coal Board, Coal Research Establishment 5.70

GB 090 TND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 6.70 S

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CENTRAL ELECTRICITY GENERATING BOARD

ACRONYM: CEGB

See also

ADDRESS: Sudbury House,
25 Newgate Street,
LONDON E.C.1.

Tel.: (01) 248.1202

AFFIL:

Title	PERSONNEL	Function
Mr.	F.P. Ross	Research Coordinator
Mr.	A.J. Clarke	

AP aims and actions:

Coordination of plume rise and dispersion measurements around specific Power Stations.

Routine surveys of pollution around all new power stations before and after commissioning.

Comments:

Results of routine surveys reported to Warren Spring (GB.039) as part of National Survey.

GB.090 Central Electricity Generating Board 6.70

GB [redacted] 091 TND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 6.70 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CENTRAL ELECTRICITY RESEARCH LABORATORIES

ACRONYM: CERL

See also

ADDRESS: Randalls Road,
LEATHERHEAD,
Surrey.

Tel:

AFFIL: Central Electricity Generating Board

Title	PERSONNEL	Function
Mr.	D.H. Lucas	Head of Physics Department
Dr.	D.J. Moore	
	J. Coulihan	

AP aims and actions:

Studies of plume rise and dispersion of power station plumes in cooperation with regional laboratories.
Wind tunnel investigations of theoretical predictions of the effects of meteorology and terrain on dispersion.

Comments:

GB.091 Central Electricity Research Laboratories 6.70

GB [redacted] 092 IND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LAPORTE INDUSTRIES LIMITED: General Chemicals Division

ACRONYM:

See also

ADDRESS: WIDNES,
Lancashire.

Tel.:

AFFIL: Peter Spence and Sons Limited

Title	PERSONNEL	Function
Mr.	E. B. Andrews	

AP aims and actions:

Development of catalytic devices for the control of atmospheric pollutants from cars.
Development of catalytic processes for the removal of sulphur dioxide from flue gases and improving industrial gaseous effluents.

Comments:

GB.092 Laporte Industries Limited, General Chemicals Division 5.70

GB [redacted] 093 TND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 6.70 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ROLLS ROYCE LIMITED (Aero Engines)

ACRONYM:

See also

ADDRESS: Scientific Development Labs.
Nightingale Road,
DERBY.

Tel.: 42424

AFFIL.:

Title	PERSONNEL	Function
Mr.	M. J. T. Smith	Manager
Mr.	F. Walker	Section Head Pollution
Mr.	T. Durant	Noise Control

AP aims and actions:

Studies on the reduction of smoke and nitrogen oxides and unburned fuel emissions from jet engines by means of mechanical modifications and fuel additives.
Studies on the reduction of noise from jet engines.

Comments:

GB.093 Rolls-Royce Limited (Aero Engines) 6.70

GB [redacted] 094 TND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: BRITISH TITAN PRODUCTS LIMITED

ACRONYM:

See also

ADDRESS: Carlton Weathering Test Stn.
Yarm Back Lane,
Hartburn,
STOCKTON-ON-TEES.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Mr.	E. Oakley	Superintendent

AP aims and actions:

The evaluation of titanium dioxide pigments in various media for weathering and photo-degradative breakdown including measurements of atmospheric contamination.

Comments:

GB.094 British Titan Products Limited 5.70

GB	[redacted]	095	IND	~~A~~ B C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted]	S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: GAS COUNCIL: Watson House Research Division

ACRONYM:

See also

ADDRESS: Peterborough Road,
Fulham,
LONDON S.W.6.

Tel: 01.736.1212

AFFIL:

Title	PERSONNEL	Function
Mr.	L. W. Andrew	Director
Mr.	E. A. K. Patrick	Manager of Research Division

AP aims and actions:

Research into flames and combustion with emphasis on the domestic and commercial utilization of gas.

Comments:

Also provides grants for outside work (eg. Sheffield U. Geog. - GB.135).

GB.095 Gas Council, Watson House Research Division 5.70

GB	[redacted]	096	IND	A ~~B~~ C ~~D~~ E F	01 ~~02~~ ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 ~~35~~	~~L~~ M S	1 ~~2~~ 3	6.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: IMPERIAL CHEMICAL INDUSTRIES LIMITED

ACRONYM: ICI

See also

ADDRESS: Imperial Chemical House,
Millbank,
LONDON S.W.1.

Tel.: (01) 834.4444

AFFIL:

Title	PERSONNEL	Function
Dr.	L.W. Oldham	Head Office air and water pollution Section Head
Dr.	B. Leadbetter	Agricultural Division, Billingham
Dr.	C.J. Stairmand	

AP aims and actions:

Air and water pollution sections in Head Office and in each division act in an advisory and watchdog capacity to production staff to ensure minimum pollution both inside and outside plant.

Comments:

GB.096 Imperial Chemical Industries Limited 6.70

GB [redacted] 101 SOC A B̸ C D E F̸ 0̸1 0̸2 03 04 05 11 12 13 1̸4 1̸5 21 22 23 24 25 31 32 33 34 35 L̸ M S 1̸ 2 3 7.70 [redacted] S̸ ✗
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: NATIONAL SOCIETY FOR CLEAN AIR

ACRONYM: NSCA

See also

ADDRESS: 134 North Street,
BRIGHTON.

Tel: (0273) 26313

AFFIL:

Title	PERSONNEL	Function
Adml.	P. G. Sharp	Director & secretary
Dr.	W. C. Cayton	Chairman of Council

AP aims and actions:

The society seeks to secure the maximum of light and air free from every form of pollution, particularly that arising from the combustion of fuel, throughout the UnitedKingdom. This is achieved by arranging lectures, visits and training courses for plant operators and by acting as a pressure group for the introduction of smokeless zones.

Comments:

Arranges regional and annual national conferences.
Publishes "Smokeless Air" (Q'ly; 5s.) and "Clean Air Year Book".

GB.101 National Society for Clean Air 7.70

GB [redacted] 102 SOC A B̸ C D E F 01 02 03 04 05 1̸1 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S̸ 1 2 3̸ 5.70 [redacted] S ✗
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ROYAL SOCIETY OF HEALTH

ACRONYM: RSH

See also

ADDRESS: 90 Buckingham Palace Road,
LONDON S.W.1.

Tel: 01.730.5134

AFFIL:

Title	PERSONNEL	Function
Mr.	P. A. Wells	Secretary

AP aims and actions:

Promotes discussion and lectures on health aspects of pollution.

Comments:

GB.102 Royal Society of Health 5.70

GB	103	SOC	A ~~B~~ C D E F	01 02 03 04 05	11 12 ~~13~~ ~~14~~ 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: ROYAL SOCIETY OF ARTS

ACRONYM: RSA

See also

ADDRESS: 6-8 John Adam Street,
LONDON W.C.2.

Tel.: 01.839.2366

AFFIL:

Title	PERSONNEL	Function
Mr.	G. E. Mercer	Secretary

AP aims and actions:

Promotes discussion and lectures on aspects of air pollution.

Comments:

GB.103 Royal Society of Arts 5.70

GB	104	SOC	A ~~B~~ C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 2 ~~3~~	5.70		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: THE WOMEN'S ADVISORY COUNCIL ON SOLID FUEL

ACRONYM:

See also GB.

ADDRESS: 18 South Molton Street,
LONDON W.1.

Tel.: 01.629.5358

AFFIL:

Title	PERSONNEL	Function
Miss	Cruttenden	Secretary

AP aims and actions:

Promotes use of solid fuels (smokeless when possible) for domestic use, through lectures and demonstrations to women's organisations.

Comments:

Independent organisation but comes under auspices of the Coal Utilisation Council

GB.104 The Women's Advisory Council on Solid Fuel 5.70

Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
GB	[redacted]	105	SOC	A [✓ B] C D E F	01 02 03 04 05	11 12 [✓ 13] 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 2 [✓ 3]	5.70	[redacted]	S T

NAME: INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS

ACRONYM:

See also

ADDRESS: 29 Belgrave Square,
LONDON S.W.1.

Tel.: 01.235.3755

AFFIL.:

Title	PERSONNEL	Function
Mr.	K. Hay	Secretary
Mr.	Rayner	Information Officer
Mr.	Myles White	Chairman-Working Party

AP aims and actions:

Working party on conservation, including atmospheric pollution.

Comments:

GB.105 Incorporated Association of Architects and Surveyors 5.70

Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
GB	[redacted]	106	SOC	A B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	5.70	[redacted]	S T

NAME: BRITISH MEDICAL ASSOCIATION

ACRONYM: BMA

See also

ADDRESS: BMA House,
Tavistock Square,
LONDON W.C.1.

Tel.: 01.387.4499

AFFIL.:

Title	PERSONNEL	Function
Dr.	H. A. Field	Secretary - Pollution Health Committee
Mr.	R. Currer	Secretary - Occupational Health Committee

AP aims and actions:

Air pollution matters raised by members are discussed by the Public Health Committee or the Occupational Health Committee.

Where action is required, BMA Council makes representations to appropriate bodies.

Comments:

GB.106 British Medical Association 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
GB	107	SOC	A ~~B~~ C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 2 ~~3~~	5.70	S	T

NAME: DISTRICT HEATING ASSOCIATION

ACRONYM:

See also

ADDRESS: Derbyshire House,
St. Chad's Street,
LONDON W.C.1.

Tel.: 01.278.1964

AFFIL:

Title	PERSONNEL	Function
Mr.	A. W. Brown	

AP aims and actions:

To further the cause of district heating in principle and practice, to create an informed public opinion on the value and importance of district heating.

To originate and propose improvements in the law to facilitate and encourage the development of district heating.

Comments:

GB.107 District Heating Association 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
GB	108	SOC	A ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 ~~13~~ 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 2 ~~3~~	6.70	S	T

NAME: ROYAL INSTITUTE OF BRITISH ARCHITECTS

ACRONYM: RIBA

See also

ADDRESS: 66 Portland Place,
LONDON W.1.

Tel.: 01.580.5533

AFFIL:

Title	PERSONNEL	Function
Mr.	P. K. Harrison	Secretary

AP aims and actions:

Interest in pollution stimulated by meetings, papers etc.

Comments:

GB.108 Royal Institute of British Architects 6.70

GB	[redacted]	109	SOC	A	[✓ B]	C	D	E	[✓ F]	01	02	03	04	05	[✓ 11]	12	13	14	15	21	22	23	24	25	31	32	33	34	35	[✓ L]	M	S	1	2	[✓ 3]	6.70	[redacted]	S	T
Country		No	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: BRITISH OCCUPATIONAL HYGIENE SOCIETY

ACRONYM:

See also

ADDRESS: Nuffield Dept. of Ind. Health,
Medical School,
NEWCASTLE-ON-TYNE,

Tel: (0632) 28511

AFFIL:

Title	PERSONNEL	Function
Dr.	J. Steel	Hon. Secretary

AP aims and actions:

Acts as a forum for hygienists on air pollution matters
Frequent papers on pollution are presented.

Comments:

GB.109 British Occupational Hygiene Society 6.70

GB	[redacted]	110	SOC	A	[✓ B]	C	D	E	[✓ F]	01	02	03	04	05	[✓ 11]	12	13	14	15	21	22	23	24	25	31	32	33	34	35	[✓ L]	M	S	1	2	[✓ 3]	6.70	[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: SOCIETY OF OCCUPATIONAL MEDICINE

ACRONYM:

See also

ADDRESS: 11 St. Andrew Place,
Regents Park,
LONDON N.W.1.

Tel: (01) 486.2641

AFFIL:

Title	PERSONNEL	Function
Dr	P. Swann	Hon. Secretary

AP aims and actions:

Acts as a forum on air pollution matters
Papers and discussions on pollution are encouraged.

Comments:

GB.110 Society of Occupational Medicine 6.70

GB	111	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 ~~25~~	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: BLACKBURN COLLEGE OF TECHNOLOGY AND DESIGN

ACRONYM:

See also GB.030

ADDRESS: Department of Pure and
Applied Science,
Blackburn, BB2 1LH,
Lancashire.

Tel.: 54111

AFFIL:

Title	PERSONNEL	Function
Mr.	S. Hargreaves	Senior Lecturer

AP aims and actions:

Analyses of local National Survey smoke filters for lead, copper, zinc and vanadium using atomic absorption methods. Data has not yet been collated.

Has had M.Sc. student determining carcinogenic hydrocarbons on smoke filters.

Comments:

Was working on Science Research Council grant (GB.030).

GB.111 Blackburn College of Technology and Design 5.70

GB	112	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: CENTRAL MIDDLESEX HOSPITAL

ACRONYM:

See also

ADDRESS: Cardio-Thoracic Department,
Park Royal,
London, N.W.10.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	K. P. Ball	
Dr.	W. McNicol	

AP aims and actions:

Epidemiological studies in relation to chronic chest diseases and atmospheric pollution in London.

Comments:

GB.112 Central Middlesex Hospital 5.70

GB [redacted] 113 ACD ~~A~~ B C D E F 01 02 03 04 05 11 ~~12~~ 13 14 15 21 22 23 24 ~~25~~ 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 5.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: EDINBURGH U, Dept. of Agriculture.

ACRONYM:

See also

ADDRESS: Old College,
South Bridge,
EDINBURGH 8.

Tel.: (031) 667.1011

AFFIL:

Title	PERSONNEL	Function
	D. Purves	
Dr.	J. Mackenzie	

AP aims and actions:

Studies of trace elements (B, Pb, Cu) in rain water and soils around Edinburgh.

Comments:

GB.113 Edinburgh U: Dept. of Agriculture 5.70

GB [redacted] 114 ACD ~~A~~ B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 ~~24~~ 25 31 32 33 34 35 L ~~M~~ S 1 ~~2~~ 3 3.70 [redacted] S ~~T~~

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: EDINBURGH UNIVERSITY, School of Architectural Studies

ACRONYM:

See also

ADDRESS: Old College,
South Bridge,
EDINBURGH 8.

Tel.: (031) 667.1011

AFFIL:

Title	PERSONNEL	Function
Prof.	C.B. Wilson	

AP aims and actions:

Studies of air flow around buildings and over towns for the better design and location of new buildings.

Comments:

Has created informal group of "Experts on the Built Environment" from schools of Architecture, Geography Civil Eng'g, Urban Design, etc.

Plans conference on this in Edinburgh in 1971.

GB.114 Edinburgh University, Sch. of Architectural Studies 3.70

GB	[redacted]	116	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	3.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: EDINBURGH UNIVERSITY, Department of Geography

ACRONYM:

See also

ADDRESS: High School Yards,
EDINBURGH EH1 1NR.

Tel.: (031) 667.1011

AFFIL: U. of Edinburgh

Title	PERSONNEL	Function
Dr.	A. J. Crosbie	
assisted by:-		
Mrs.	N. J. Crosbie	senior research assistant
Mr.	J. H. A. Dick	research assistant
	total 4 P/NP + 1 student	

AP aims and actions:

Survey of ambient AP in Edinburgh as function of topography, temperature, meteorology and categories of fuel usage, with aid of computer.

Studies of local sea mist and pollutants.

Comments:

Interest in regional pollutant inventories, changes brought about by legislation, and the significance of AP for urban planning.

GB.116 Edinburgh University, Dept. of Goegraphy 3.70

GB	[redacted]	115	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	3.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: EDINBURGH U, Dept. of Botany

ACRONYM:

See also

ADDRESS: Old College,
South Bridge,
EDINBURGH 8.

Tel.: (031) 667.1011

AFFIL:

Title	PERSONNEL	Function
Dr.	W. Blythe	Lecturer

AP aims and actions:

Studies of pollen and respiratory diseases.

Comments:

GB.115 Edinburgh U: Dept. of Botany 3.70

GB [redacted]	117	ACD	[✓ A] B C D E F	01 02 03 04 [✓ 05]	11 12 13 14 15	21 22 23 24 [✓ 25]	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	5.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: LANCASTER COLLEGE OF TECHNOLOGY

ACRONYM:

See also

ADDRESS: Science Department,
Cross Hill,
LANCASTER.

Tel.: 66215

AFFIL:

Title	PERSONNEL	Function
Dr.	Francis Turner	Head of department

AP aims and actions:

Study of the relative importance of marine and urban sources of airborne salt particles with reference to the respirable fraction. Includes the determination of size distribution and chemical composition and the correlation of results with meteorological factors.

Comments:

GB.117 Lancaster College of Technology 5.70

GB [redacted]	118	ACD	[✓ A] B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	5.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: LANCASTER UNIVERSITY, Department of Environmental Sciences.

ACRONYM:

See also

ADDRESS: University House,
Bailrigg,
LANCASTER.

Tel.: 65292

AFFIL:

Title	PERSONNEL	Function
Mr.	P. Larsson	Lecturer

AP aims and actions:

Studies of radiation climatology with reference to atmospheric pollution in North West England.

Comments:

No specific programme is being followed at the present.

GB.118 Lancaster University, Dept. of Environmental Sciences 5.70

GB [redacted]	119	ACD	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: LONDON UNIVERSITY, Imperial College of Sci. and Technology
Department of Thermodynamics and Fluid Mechanics.

ACRONYM:

See also

ADDRESS: Prince Consort Road,
LONDON S.W.7.

Tel.: 01.589.5111

AFFIL:

Title	PERSONNEL	Function
Mr.	D. W. Moore	Reader

AP aims and actions:

Experimental and analytical studies of the compression-ignition of fuel-air mixtures including the identification and measurement of hydrocarbons and hydrocarbon derivative in the exhausts of compression-ignition engines.

Comments:

GB.119 London University, Imperial College of Sc. and Tech. 5.70

GB [redacted]	120	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ ~~25~~	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: LONDON UNIVERSITY, Imperial College of Sci. and Technology
Department of Chemical Engineering and Chemical Technology

ACRONYM:

See also

ADDRESS: Prince Consort Road,
LONDON S.W.7.

Tel.: (01) 589.5111

AFFIL:

Title	PERSONNEL	Function
Dr.	M. J. G. Wilson + 2 students	Senior Lecturer

AP aims and actions:

Development of rapid response flame photometric instrument for measurement of very low concentrations of sulphur compounds in the atmosphere.
Development of method of measuring acid particles using thin metal plates.

Comments:

GB.120 London University, Imperial College of Sc. & Tech. 5.70

GB	[redacted]	121	ACD	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 ~~14~~ 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	5.70	[redacted]	S ~~T~~
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: LONDON UNIVERSITY, Imperial College of Sci. and Technology

Department of Mathematics

ACRONYM:

See also

ADDRESS: Prince Consort Road,
LONDON S.W.7.

Tel.: (01) 589.5111

AFFIL.:

Title	PERSONNEL	Function
Prof.	R. S. Scorer	Professor of Theoretical Mechanics.

AP aims and actions:

Studies of air pollution and meteorology, with particular reference to the use of dispersion questions and the use of photography.

Comments:

Acts as consultant in public enquiries for new power stations, refineries etc.

GB.121 London University, Imperial College of Sc. & Tech. 5.70

GB	[redacted]	122	ACD	~~A~~ B C D E F	01 02 ~~03~~ 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	5.70	[redacted]	S T
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: LONDON UNIVERSITY, School of Hygiene and Tropical Medicine

Department of Occupational Health

ACRONYM:

See also

ADDRESS: Keppel Street,
LONDON W.C.1.

Tel.: (01) 636.8636

AFFIL.:

Title	PERSONNEL	Function
Prof.	R.S.F. Schilling	Head of Dept.
Dr.	S.A. Roach	Reader

AP aims and actions:

Environmental studies of the textile and asbestos industries.
Development of methods for measuring air contaminants.

Comments:

Main exphasis on industrial hygiene.

GB.122 London U., Sch. of Hyg. & Trop. Med; Dept. Occup. Hlth. 5.70

GB [redacted]	123	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	5.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: LONDON UNIVERSITY, School of Hygiene and Tropical Medicine.
Department of Medical Statistics and Epidemiology

ACRONYM:

See also

ADDRESS: Gower Street,
LONDON W.C.1.

Tel.: 01.636.8636

AFFIL:

Title	PERSONNEL	Function
Prof.	D.D. Reid	Director
	J.R.T. Colley	Senior Lecturer

AP aims and actions:

Surveys of respiratory conditions in children from different social and local environments with emphasis on air pollution.

Comments:

Sponsored by the Tobacco Research Council.

GB.123 London U., Sch. of Hyg. & Trop. Med; Dept. Med. Statistics 5.70

GB [redacted]	124	ACD	~~A~~ B C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: LONDON UNIVERSITY, UNIVERSITY COLLEGE
Department of Botany

ACRONYM

See also

ADDRESS: Gower Street,
LONDON W.C.1.

Tel.: 01.387.7050

AFFIL:

Title	PERSONNEL	Function
Dr.	J.G. Duckett	

AP aims and actions:

Studies of the distribution of lichens and mosses associated with air pollution concentrations.

Comments

Work being done in conjunction with Oxford University Zoology Department. (GB.125)

GB.124 London University, University College, Dept. of Botany 5.70

GB 105 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: LONDON UNIVERSITY, UNIVERSITY COLLEGE
Department of Geography

ACRONYM:

See also

ADDRESS: Gower Street,
LONDON W.C.1.

Tel: 01.387.7050

AFFIL:

Title	PERSONNEL	Function
Dr.	T.J. Chandler	Reader
	+ 1 research student	

AP aims and actions:

Studies have been made of the spatial distribution of pollution in urban areas (London, Leicester). The distribution of pollution in different air streams over rural areas is now being studied with possible extension to pollution drift on a national scale.

Comments:

Active discussions on extension of project underway.

GB.105 London University, University College, Dept. of Geography 5.70

GB 106 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY
Department of Electrical Engineering

ACRONYM:

See also

ADDRESS: LOUGHBOROUGH,
Leicestershire

Tel: 3171

AFFIL:

Title	PERSONNEL	Function
Dr.	J.R. [illegible]	Lecturer
	1 research assistant part-time.	

AP aims and actions:

Study of turbulent diffusive processes in the atmosphere using liquid model experiments to simulate the diffusion patterns from instantaneous and continuous sources under different conditions of atmospheric stratification.

Comments:

Present programme almost completed; future plans now to be formulated.

GB.106 Loughborough U. of Tech., Dept. of Electrical Engineering 5.70

GB.	127	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	5.70		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: UNIVERSITY OF NEWCASTLE UPON TYNE, Department of Botany

ACRONYM:

See also

ADDRESS: NEWCASTLE UPON-TYNE 1.

Tel: 28511

AFFIL:

Title	PERSONNEL	Function
Dr.	A.W. Davison	Lecturer

AP aims and actions:

Studies of fluoride contamination of plants around a new aluminium smelter and on Tyneside generally. Similar studies of zinc uptake by plants.

Comments:

GB.127 University of Newcastle-Upon Tyne, Dept. of Botany 5.70

GB.	128	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	5.70		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: UNIVERSITY OF OXFORD, Department of Zoology.

ACRONYM:

See also GB.124

ADDRESS: Genetics Laboratory,
OXFORD.

Tel: 55275

AFFIL:

Title	PERSONNEL	Function
Dr.	H. B. D. Kettlewell	Senior Research Officer
Dr.	E. R. Creed	
Mr.	D. R. Lees	

AP aims and actions:

Studies of the evolutionary changes in the colour of lepidoptera and coleptera brought about by local smoke concentrations. In conjunction with this, studies of changes in lichen and moss distributions are being made.

Comments:

Botanical studies being made at University College, London by Dr. Duckett. (GB.124)

GB.128 University of Oxford, Department of Zoology 5.70

GB 129 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: PORTSMOUTH COLLEGE OF TECHNOLOGY, Dept. of Biological Science

ACRONYM:

See also

ADDRESS: Hampshire Terrace,
PORTSMOUTH,
Hampshire.

Tel: 21571

AFFIL:

Title	PERSONNEL	Function
Mr.	F.N. Haynes	
Mr.	D. Morgan-Huws	

AP aims and actions:

Research into the effect of air pollution on lichens with particular reference to the New Forest and Southampton water areas.

Comments:

GB.129 Portsmouth College of Technology, Dept. of Biol. Science. 5.70

GB 130 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: READING UNIVERSITY, Department of Geography.

ACRONYM:

See also GB.084

ADDRESS: Whiteknights Park,
READING,
Berkshire.

Tel: 84601

AFFIL:

Title	PERSONNEL	Function
Dr.	M. Parry	Senior Lecturer

AP aims and actions:

Meteorological factors affecting dispersion of AP in Reading.

Comments:

Cooperated with British Petroleum (GB.084) in their Reading Survey - 1966.

Little work being done now but plans for post-graduate studies in 1970-71.

GB.130 Reading University, Department of Geography 5.70

GB	[redacted]	131	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: ST. THOMAS'S HOSPITAL MEDICAL SCHOOL

Department of Clinical Epidemiology and Social Medicine

ACRONYM:

See also

ADDRESS: LONDON S.E.1.

Tel.: 01.928.9292

AFFIL:

Title	PERSONNEL	Function
Prof.	W.W. Holland	Director
	4 graduate staff + 6 full time assistants	

AP aims and actions:

(1) Study of respiratory symptoms of a sample of young families in N. London chosen from different environments and social classes.

(2) Study of respiratory disease and lung function in school children in Kent living in areas with different levels of pollution.

Comments:

(2) being carried out in cooperation with local Medical Officers of Health.

GB.131 St. Thomas's Hospital Medical School, Dept. of ... Soc. Med. 5.70

GB	[redacted]	132	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: SALFORD UNIVERSITY, Department of Environmental Studies

ACRONYM:

See also

ADDRESS: SALFORD M5 4WT.

Tel.: 061.736.5843

AFFIL:

Title	PERSONNEL	Function
Mr.	F.L. Thomas	Principal Lecturer in Public Health
Mr.	G.W. Rhodes	Lecturer

AP aims and actions:

Measurement of sulphur dioxide and smoke concentrations in an industrial area.

Comments:

Interpretation of data yet to be made; awaiting suitable student.

GB.132 Salford University, Dept. of Environmental Studies 5.70

GB [redacted] 133 ACD ~~A~~ B C D E F 01 02 03 04 05 ~~11~~ 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 5.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: SHEFFIELD UNIVERSITY, Department of Preventive Medicine and Public Health.

ACRONYM:

See also GB.035

ADDRESS:
SHEFFIELD S10 2TN

Tel.: 78555

AFFIL:

Title	PERSONNEL	Function
Dr.	J. E. Lunn	Lecturer

AP aims and actions:

Study of respiratory ailments amongst school children in Sheffield in relation to atmospheric pollution data. Data now being analysed.

Comments:

Pollution measurements made by Geography Department (GB.135) and Local Authority.

GB.133 Sheffield U., Dept. of Preventive Medicine & Public Health 5.70

GB [redacted] 134 ACD A B C D E F 01 ~~02~~ 03 04 05 11 12 13 14 15 21 ~~22~~ 23 24 25 ~~31~~ 32 33 34 35 L ~~M~~ S 1 2 ~~3~~ 5.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: SHEFFIELD U., Dept. of Fuel Technology and Chemical Eng'g.

ACRONYM:

See also

ADDRESS:
Newcastle Street,
SHEFFIELD 1,
SID 2TN.

Tel.: 78555

AFFIL:

Title	PERSONNEL	Function
Prof.	J. M. Beer	Head of Department
Dr.	E. Rothwell	Senior Lecturer
Dr.	A. B. Hedley	Lecturer
Dr.	D. J. Brown	Lecturer
	+ students	

AP aims and actions:

Studies on:
1. Formation of oxides of nitrogen in combustion systems.
2. Condensation of sulphuric acid on metal surfaces.
3. Filtration of aerosols.

Comments:

GB.134 Sheffield U. Dept. of Fuel Tech. & Chem. Eng'g. 5.70

GB	135	ACD	A̸ B C D̸ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 2̸4 25	31 32 33 34 35	L M S	1 2̸ 3	5.70	S A̸
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: SHEFFIELD UNIVERSITY, Geography Department

ACRONYM:

See also GB.039 GB.090

ADDRESS:
SHEFFIELD 1. S10 2TN.

Tel.: 0742.78555

AFFIL:

Title	PERSONNEL	Function
Prof	A. Garnett	Emeritus Prof.
Mr.	P. Read	
	total: 6 P/NP + 1 post graduate	

AP aims and actions:
Survey of SO_2 and smoke in Sheffield with particular reference to topography and meteorology

Comments:
Survey was being done under contract to Warren Spring Laboratory (GB.039); now sponsored by Gas Council (GB.090) and others.

GB.135 Sheffield University, Geography Department 5.70

GB	136	ACD	A̸ B C D E F	0̸1 02 03 04 05	11 12 13 14 15	21 22 23 2̸4 25	31 32 33 34 35	L M S̸	1 2 3̸	5.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: UNIVERSITY OF STRATHCLYDE, Dept. of Pure and Applied Chem.

ACRONYM:

See also

ADDRESS: GLASGOW, C.1

Tel.: (041) 552.4400

AFFIL:

Title	PERSONNEL	Function
Dr.	W. Gibb	Senior Lecturer

AP aims and actions:
Studies of the formation of nitrogen oxides in internal combustion engines.
Construction of computer programmes for the prediction of stack heights.

Comments:
Little practical work this year but probable post graduate studies in 1970/71.

GB.136 University of Strathclyde, Dept. of Pure and Applied Chem. 5.70

GB [redacted] 137 ACD ~~A~~ B C D E F 01 02 03 04 05 11 ~~12~~ 13 14 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 5.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITY OF STRATHCLYDE, Department of Geography

ACRONYM:

See also

ADDRESS: GLASGOW C.1

Tel.: (041) 552.4400

AFFIL:

Title	PERSONNEL	Function
Mr.	G. Jones	Assistant Lecturer
Mr.	M.R. Moss	

AP aims and actions:

Studies of the effects of SO_2 pollution on vegetation around Milford Haven.

Studies of the effects of emissions from iron and steel works on coniferous trees.

Comments:

Practical work finished; thesis in preparation.

GB.137 University of Strathclyde, Dept. of Geography 5.70

GB [redacted] 138 ACD ~~A~~ B C D E F 01 ~~02~~ 03 04 ~~05~~ ~~11~~ 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 5.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITY OF NEWCASTLE-UPON-TYNE, Dept. of Industrial Health

ACRONYM:

See also

ADDRESS: NEWCASTLE-UPON-TYNE 1.

Tel.: 28511

AFFIL:

Title	PERSONNEL	Function
Prof.	R.C. Browne	Nuffield Professor

AP aims and actions:

Study of fumes from welding processes and inorganic dust contamination, with particular reference to asbestos, and associated health effects.

Comments:

Small part of large research programme on engineering.

GB.138 University of Newcastle-upon-Tyne, Dept. of Industrial Health 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date
GB	139	ACD	~~A~~ B C D E F	01 02 03 04 ~~05~~	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70

NAME: UNIVERSITY OF WALES, University College, Mining Department

ACRONYM:

See also

ADDRESS: University College,
CARDIFF,
CF1 3NR

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	K.M. Brown	Senior Lecturer

AP aims and actions:

Electron and light microscopy studies of underground and surface air pollution problems.

Comments:

GB.139 University of Wales, University College, Mining Department 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date
GB	140	ACD	~~A~~ B C D E F	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	5.70

NAME: UNIVERSITY OF WALES, Welsh National School of Medicine
Department of Social and Occupational Medicine

ACRONYM:

See also

ADDRESS: The Parade,
CARDIFF, CF2 1YE.

Tel.: 31777

AFFIL:

Title	PERSONNEL	Function
Prof.	C.R. Lowe	Head of department
Dr.	C.G. Warner	
Mr.	G.M. Davies	
	and others	

AP aims and actions:

Studies of respiratory symptomatology amongst steelworkers related to atmospheric pollution and smoking habits.

Associated measurements of particulate and gaseous pollutants in and around a steelworks (SO_2 and particulates).

Studies of the distribution of lichens in relation to atmospheric pollution in and around a steelworks.

Comments:

Work carried out on a Nuffield Foundation grant 1964-69. Team now disbanded?

GB.140 University of Wales, Welsh National School of Medicine 5.70

GB [redacted]	141	ACD	A̸ B C D E F	01 02 03 04 05	11 1̸2 13 14 15	21 22 23 24 25	31 32 33 34 35	L M̸ S	1 2 3̸	5.70 [redacted] S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: UNIVERSITY OF WALES, Institute of Science and Technology

ACRONYM:

See also GB.031

ADDRESS: Department of Applied Biology,
Cathays Park,
CARDIFF CF1 3NU

Tel.: 42522

AFFIL:

Title	PERSONNEL	Function
Prof.	R. W. Edwards	Head of Department
Dr.	R. J. H. Williams	Lecturer
	+ 2 Post-doctorate students.	

AP aims and actions:

Survey of pollution damage in deciduous woodlands near smokeless fuel plant, including measurement of particulate deposit on leaves and SO_2 by corrosion of zinc cans.

Survey of vegetation damage around a large steelworks with particular reference to SO_2 damage of coniferous plantations.

Comments:

National Environment Research Council (GB.031) grant for 3 years from December, 1969.

GB.141 University of Wales, Institute of Science and Technology 5.7

GB [redacted]	142	ACD	A̸ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 3̸2 33 34 35	L M S̸	1 2 3̸	5.70 [redacted] S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: LONDON UNIVERSITY: Queen Mary College
Department of Mechanical Engineering

ACRONYM:

See also

ADDRESS: Mile End Road,
LONDON E.1.

Tel.: 01.980.4811

AFFIL:

Title	PERSONNEL	Function
Prof.	M.W. Thring	

AP aims and actions:

Studies of combustion and incineration.

Comments:

GB.142 London University: Queen Mary College 5.70

GB	[redacted]	143	ACD	~~A~~ B C D E F	~~01~~ 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 3	6.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: BRIGHTON POLYTECHNIC

ACRONYM:

See also

ADDRESS:
Department of Civil Engineering and Building,
BRIGHTON.

Tel.: 67304

AFFIL:

Title	PERSONNEL	Function
Dr.	Baddeley	
Mr.	J. Lewis	

AP aims and actions:

Studies of measurable effects of pollution on people, with particular reference to effects of automotive emissions on drivers and SO_2 on bronchitis sufferers.

Comments:

GB.143 Brighton Polytechnic 6.70

GB	[redacted]	144	ALD	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	5.70	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: PLYMOUTH COLLEGE OF TECHNOLOGY: Department of Mech. Eng'g.

ACRONYM:

See also

ADDRESS: PLYMOUTH.

Tel.: 68000

AFFIL:

Title	PERSONNEL	Function
Mr.	E.C. Thomasson	
Mr.	F.J. Woodgate	

AP aims and actions:

Studies on the effect of petrol injection on automotive exhaust emissions.

Comments:

Project not yet active but facilities being obtained.

GB.144 Plymouth College of Technology, Dept. of Mech. Eng'g. 5.70

GB [redacted]	146	ACD	~~A~~	B	C	D	E	F	01	02	03	04	05	11	12	~~13~~	~~14~~	15	21	22	23	24	25	31	32	33	34	35	L	M	~~S~~	1	~~2~~	3	6
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			D

NAME: CENTRE FOR ENVIRONMENTAL STUDIES

ACRONYM:

See also

ADDRESS: 5 Cambridge Terrace,
Regents Park,
LONDON N.W.1.

Tel.: (01) 486.3956

AFFIL:

Title	PERSONNEL	Function
Prof.	D. Donnison	director

AP aims and actions:

Sponsors research into the influence of pollution on town planning

Comments:

Mainly concerned with
Gave grant to Sheffiel
(Geog. Dept.) for 19
Financed by Ford Found
Government.

GB.146 Centre for Environmental Studies

GB [redacted]	145	ACD	~~A~~	~~B~~	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	~~33~~	34	35	L	M	~~S~~	1	2	~~3~~
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status		

NAME: SALFORD UNIVERSITY
Department of Chemical Engineering

ACRONYM:

See also

ADDRESS: SALFORD 5,
Lancashire.

Tel.: (061) 736.5843

AFFIL:

Title	PERSONNEL	Functio
Mr.	R. Hughes	Lecturer
Mr.	R.M. Moores	Lecturer

AP aims and actions:

Studies of flue-gas desulphurisation

Comments:

Little practical work
present.

GB.145 Salford University, Dept. of Chem. Eng'g.

GB [redacted]	147	ACD	A ~~B~~ C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	L M S	1 ~~2~~ 3	6.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: COLLEGE OF FUEL TECHNOLOGY

ACRONYM:

See also GB.035

ADDRESS: 90 Talbot Road,
Highgate,
LONDON N.6

Tel.: (01) 340.6972

AFFIL:

Title	PERSONNEL	Function
Mr.	A. Coe	Principal

AP aims and actions:

Training college for all aspects of fuel technology. Operates technical information service to local authorities and provides consultancy service when required.

Comments:

Was operating training scheme for NIFES (GB.035) but NIFES now withdrawn from scheme.

GB.147 College of Fuel Technology 6.70

GB [redacted]	148	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 ~~25~~	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	7.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: UNIVERSITY OF WALES, University College of North Wales

ACRONYM:

See also

ADDRESS: BANGOR,
Caernarvonshire.

Tel.: 2501

AFFIL:

Title	PERSONNEL	Function
Dr.	P. S. Liss	Research Fellow

AP aims and actions:

Studies of the interchange of gases between atmosphere and ocean.

Comments:

GB.148 University of Wales, Univ. Coll. of North Wales 7.70

GB [redacted]	160	ONE	A ~~B~~ C D E F	01 ~~02~~ ~~03~~ 04 05	11 12 13 14 ~~15~~	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	3.70	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

ACRONYM:

NAME: DR. G. NONHEBEL

See also

ADDRESS: Woodley Lane,
ROMSEY,
Hampshire, SO5 8JR

Tel.: Romsey 3408

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Advice and assistance with AP problems, e.g. for planning enquiries for new industrial plant.

Comments:

Retired from industrial AP work; now a consultant.

5.70

GB.160 Dr. G. Nonhebel

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	170	INF	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	6.70	[redacted] S T

NAME: NATIONAL LENDING LIBRARY FOR SCIENCE AND TECHNOLOGY

ACRONYM: NLL

See also

ADDRESS: Boston Spa,
YORKSHIRE.

Tel.: 2031

AFFIL: Department of Education and Science.

Title	PERSONNEL	Function
Dr.	D.J. Urquhart	director

AP aims and actions:

Provides loan service for books and journals on all scientific subjects, including air pollution.

Comments:

GB.170 National Lending Library for Science and Technology 6.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
GB [redacted]	171	INF	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	6.70	[redacted] S T

NAME: (ASSOCIATION OF SPECIAL LIBRARIES OF INFORMATION BUREAUX)*

ACRONYM: ASLIB

See also

ADDRESS: 3 Belgrave Square,
LONDON S.W.1.

Tel.:

AFFIL: Department of Education and Science

Title	PERSONNEL	Function
Mr.	L. Wilson	director
Mrs.	E. Mack	information officer

AP aims and actions:

Directs firms to sources of technical information and provides assistance in setting up library, information and translation services.

Comments:

* Always known by its acronym.

Issues monthly booklists; indices of theses and unpublished translations available.

GB.171 ASLIB 6.70

GB	172	INF	A ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 2 ~~3~~	6.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: "YOUR ENVIRONMENT"

ACRONYM:

See also

ADDRESS: 10 Rodwick Road,
LONDON N.W.3.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	David Ross	Joint Editor
Dr.	David Jones	Science Editor

AP aims and actions:

Quarterly journal dealing outspokenly with all aspects of environmental conservation in non-scientific terms.

Comments:

First published December 1969.

GB.172 "Your Environment" 6.70

GB	173	INF	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	~~1~~ 2 3	7.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: PERGAMON PRESS

ACRONYM:

See also

ADDRESS: Headington Hill Hall,
Headington,
OXFORD.

Tel.: (006) 64881

AFFIL:

Title	PERSONNEL	Function
For 'Atmospheric Environment':-		
Dr.	D. J. Moore	executive editor
Prof.	W. Klug	
Dr.	J. P. Lodge, Jr.	

AP aims and actions:

Publishers of:-
'Atmospheric Environment'
'Beitrage zur Physik des Atmosphäres'

Comments:

Both journals are highly technical and of international standing.

GB.173 Pergamon Press 7.70

ITALY - I

I [redacted]	001	NAT	[✓ A] [✓ B] C D E F	[✓ 01] [✓ 02] [✓ 03] [✓ 04] [✓ 05]	[✓ 11] [✓ 12] [✓ 13] [✓ 14] [✓ 15]	[✓ 21] [✓ 22] [✓ 23] [✓ 24] 25	31 32 33 34 35	[✓ 1] M S	[✓ 1] 2 3	2.70	[redacted] S [✓ 1]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: COMMISSIONE CENTRALE CONTRO L'INQUINAMENTO ATMOSFERICO

Central Commission for AP

ACRONYM:

See also

ADDRESS: Via Litz 34
00100 EUR/ROMA.

Tel.: 5916941

AFFIL:
Ministero della Sanità
(Ministry of Health)

Title	PERSONNEL	Function
Prof.	C. Chiarotti	president
Dr.	V. Fagotti	secretary
	+ 17 other members	(see text Appendix)

AP aims and actions:

To examine and advise on all AP matters, including those submitted by private or public concerns.
Promotes studies by others of AP problems.

Comments:

Is competent for all AP problems.
May call upon advice of special experts.
Coordinates with Comitati Regionali (Regional Committees).

I.001 Commissione Centrale contro l'inquinamento Atmosferico 2.70

I [redacted]	002	REG	A [✓ B] C D E F	[✓ 01] [✓ 02] [✓ 03] 04 05	[✓ 11] 12 13 [✓ 14] [✓ 15]	[✓ 21] 22 [✓ 23] [✓ 24] 25	31 32 33 34 35	[✓ 1] M S	[✓ 1] 2 3	2.70	[redacted] S [✓ 1]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: COMMISSIONI REGIONALI CONTRO L'INQUINAMENTO ATMOSFERICO

Regional Commissions for AP

ACRONYM:

See also

ADDRESS: (See text Appendix)

Tel.:

AFFIL:
Provincial Health Depts.
Central Commission for AP
(I.001).

Title	PERSONNEL	Function
	Each of 16 members (see text Appendix).	

AP aims and actions:

To advise and assist local legislature in the application of AP legislation and the solution of problems.

Comments:

Law 615 requires one to be set up in chief town of each region.
Cooperates as appropriate with the Regional Committees for Economic Planning.

I.002 Commissioni Regionali contro l'Inquinamento Atmosferico 2.70

I [redacted] 003 GOV A B ~~C~~ D E F 01 02 03 04 05 11 12 13 14 15 ~~21~~ 22 23 24 25 31 32 33 34 35 ~~L~~ M S ~~1~~ 2 3 2.70 [redacted] S V

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: MINISTERO DELLA SANITA, Direzione Generale dell'Igiene Pubblica

Ministry of Health, Department of Public Hygiene

ACRONYM:

See also

ADDRESS: Via Liszt 34,
00100 ROMA.

Tel.: 5916941

AFFIL: Ministro della Sanita
(Minister of Health).

Title	PERSONNEL	Function
Prof.	C. Chiarotti	director general
Dott.	M. Colombini	AP Division head
Ing.	E. Sapienza	
Ing.	F. Ricci	(currently seconded to the Minister for AP questions)

AP aims and actions:

Prepares legislation and regulations enforcing all aspects of AP control and abatement.

Comments:

I.003 Ministero della Sanita, Dir. Gen. dell'Igiene Pubblica 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
I	004	GOV	~~A~~ ~~B~~ C ~~D~~ E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	2.70	S ~~7~~

NAME: ISTITUTO SUPERIORE DI SANITÀ, Lab. di Ingegneria Sanità

Upper Health Institute, Health Engineering Laboratory

ACRONYM:

See also

ADDRESS: Viale Regina Elena 299,
00161 ROMA.

Tel.: 4990

AFFIL: Ministro della Sanità
(Minister of Health).

Title	PERSONNEL	Function
Prof.	G.B.Marini-Bettolo	director of Istituto.
Prof.	U. Sellerio	director of Laboratorio.
Prof.	M. Cerquiglini	
Ing.	G. Scaccia-Scarafoni	head of AP Dept.
Dott.	G. Catena	

Total of about 7 (aggregate) on AP.

AP aims and actions:

Responsible for giving technical advice on AP to the Minister of Health, especially as regards toxicology.
Investigates monitoring techniques; some instrument development. Undertakes surveys; has 3 multi-functional mobile labs.
Commissions some work at University Institutes.

Comments:

The Laboratorio di Ingegneria Sanità is one of 10 laboratories in the Istituto. This Lab. has 6 Depts., one for AP (see over).

Publishes own 'Annali' (Annals).

I.004 Istituto Superiore di Sanità, Lab. di Ingegneria Sanità 2.70 ✗

I.004 Istituto Superiore di Sanita, Lab. di Ingegneria Sanita. 2.70

ISTITUTO - laboratories:

- biology
- microbiology
- chemistry
- health engineering
- therapeutic chemistry
- biological chemistry
- physics
- parasitology
- health electronics
- veterinary

Health Engineering depts:

- air pollution
- water pollution & materials
- hospitals
- abattoirs
- noise control
- radioactivity

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
I. [redacted]	005	NAT	A ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	2.70	[redacted]	S /

NAME:	CONSIGLIO SUPERIORE DELLA SANITÀ High Council for Health
ACRONYM:	
See also	

ADDRESS: Viale dell'Industria,
00100 EUR/ROMA.

Tel.: 5904

AFFIL: Ministero della Sanita
(Ministry of Health).

Title	PERSONNEL	Function
Prof.	P. Valdoni	president

AP aims and actions:

Expert consultative group to advise Min. of Health on all aspects of public health - including AP.

Comments:

Total membership >200, divided into several Sections, each with own area of expertise; one Section for AP.

I.005 Consiglio Superiore della Sanità 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
I [redacted]	006	NAT	~~A~~ ~~B~~ C ~~D~~ E F	~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~	11 12 13 14 ~~15~~	21 ~~22~~ 23 ~~24~~ ~~25~~	~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~	~~L~~ M S	~~1~~ 2 3	2.70	[redacted]	S /

NAME:	CONSIGLIO NAZIONALE DELLA RICERCHE, Lab. sull'I.A.* National Research Council, AP Lab.
ACRONYM:	CNR
See also	I.007 I.008

ADDRESS: Istituto di Chimica Analitica,
Ø Università di Roma,
00185 ROMA.

Tel.: 490.480

AFFIL: (Min. of Scientific & Tech. Research)

Title	PERSONNEL	Function
Prof	V. Caglioti	president of CNR
Prof	A. Liberti	director of AP lab.
Dott	V. Cantuti	
	Total of 15 on AP	

AP aims and actions:

Coordinates all AP research in Italy, and acts as consultant on monitoring techniques and methods. (radioactivity by IFA - I.007).

Liaison with international organisations (OECD etc); operates background station at Monte Cimone.

Promotes education on AP in schools, and simple surveys.

Comments:

* Laboratorio sull'Inquinamento Atmosferico; set up in 1968.

Ø Head Office of CNR at:
Piazzale delle Scienze 7,
00185 ROMA (tel: 4993).

Has good documentation (not only AP).

I.006 Consiglio Nazionale della Ricerche, Lab. sull'I.A. 2.70

I [redacted] 007 | NAT | A B C D̸ E F | 01 02 03 04 0̸5 | 11 12 13 14 15 | 21 2̸2 23 2̸4 25 | 31 32 33 34 35 | L M S̸ | 1 2̸ 3 | 2.70 [redacted]

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date | T

NAME: ISTITUTO DI FISICA DELL'ATMOSFERA

Institute of Atmospheric Physics

ACRONYM: IFA

See also I.006 I.009

ADDRESS:
Piazzale Sturzo,
EUR-ROMA

Tel.:

AFFIL: CNR (I.006)

Title	PERSONNEL	Function
Prof.	M. Giorgi	director

AP aims and actions:

Identification and surveillance of atmospheric radioactivity (but CNEN monitors own nuclear power stations - See I.009).

Comments:

I.007 Istituto di Fisica dell'Atmosfera 2.70

I [redacted] 008 | NAT | A̸ B C D E F | 0̸1 02 03 04 05 | 11 12 13 14 15 | 21 22 23 24 25 | 31 3̸2 33 3̸4 35 | L M̸ S | 1̸ 2 3 | 2.70 [redacted] S

Country | No | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: ISTITUTO NAZIONALE MOTORE

National Engines Institute

ACRONYM:

See also

ADDRESS: Vei dei Campi Flegrei,
Fuorigrotta,
NAPOLI.

Tel.:

AFFIL. CNR (I.006)

Title	PERSONNEL	Function
Prof.	M. Taddei	director
Prof.	C. Vocca	dep. director
Ing.	Polletta	AP work

AP aims and actions:

Research into and testing of methods for reducing vehicle exhaust emissions.

Comments:

Sole organisation of this kind in I.

Examines all Italian patent applications in this field.

I.008 Istituto Nazionale Motore 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
I [redacted]	009	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	2.70	[redacted] S T

NAME: COMITATO NAZIONALE PER L'ENERGIA NUCLEARE
National Committee for Nuclear Energy

ACRONYM: CNEN

See also I.007

ADDRESS: Via Lucania 29,
001.. ROMA

Tel.:

AFFIL: Min. dell'Industria
(Min. of Industry)

Title	PERSONNEL	Function
Prof.	Saluini	director

AP aims and actions:

Surveillance of radioactivity around own power stations.

Comments:

I.009 Comitato Nazionale per l'Energia Nucleare (CNEN) 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
I [redacted]	010	GOV	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	2.70	[redacted] S T

NAME: ISPETORATO DELLA MOTORIZAZIONE
Vehicle Inspectorate

ACRONYM:

See also

ADDRESS:

AFFIL: Ministero dei Trasporti
(Min. of Transport)

Title	PERSONNEL	Function

AP aims and actions:

Equipment for testing vehicle emissions; calibration of diesel injectors.
Surveillance of AP legislation on road.

Comments:

More future potential than present AP activity.

I.010 Ispetorato della motorizazione 2.70

I	[redacted]	011	NAT	~~A~~	~~B~~	C	~~D~~	E	F	~~01~~	~~02~~	03	04	05	11	12	13	14	15	21	22	23	~~24~~	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	2.70	[redacted]	~~S~~	~~T~~
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME:	STAZIONE SPERIMENTALE PER I COMBUSTIBILI
	Experimental Fuels Station
ACRONYM:	SSC
See also	I.024 GB.

ADDRESS: Viale de Gasperi 3,
20097 SAN DONATO MILANESE

Tel.: 51.00.32

AFFIL: Min. dell'Industria...
(Min. of Industry).
Petroleum companies.

Title	PERSONNEL	Function
Prof.	A. Girelli	director
Prof.	V. Berti	dep. director and FODS
Prof.	G. Salvi	dep. director for FGDS
Dott.	G. Leidi	vehicle emissions
Dott.	A. Jannibello	FODS
Dott.	F. Renzanigo	Milan Survey

AP aims and actions:

Measurement and abatement of vehicle exhaust emissions; studies of polynuclear aromatics (for CNR).
Flue gas desulphurisation studies (for CNR).
Fuel oil desulphurisation studies (alone in Italy) (for CNR).
Survey of SO_2 and particulates in Milan with Esso (GB.083) and Milan Provincial Lab. (I.024).
Publishes 'La Rivista dei Combustibili' 12/yr;~Li 9000.

Comments:

Is one of 8 Experimental Sta's of Min. of Industry - the only one on AP.
Income from Ministry, levies on fuels, CNR commissioned work, and tech. services;
Has good AP documentation.

I.011 Stazione Sperimentale per i Combustibili 2.70

I	[redacted]	021	MUN	A	B	C	D	~~E~~	F	01	02	03	04	05	~~11~~	12	13	14	15	21	22	~~23~~	24	25	31	32	33	34	35	L	M	~~S~~	1	2	~~3~~	2.70	[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME:	COMUNE DI BOLOGNA, Ufficio di Igiene e Sanità
	Bologna Municipality, Hygiene Dept.
ACRONYM:	
See also	

ADDRESS:

Title	PERSONNEL	Function
Dott.	Maccolini	Health Officer

AP aims and actions:

Comments:

I.021 Comune di Bologna, Ufficio di Igiene e Sanità 2.70

I [redacted] 022 MUN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 2.
Country No. Type Functions Sources Effects Controls Remedies Size Status Da

NAME: COMUNE DI GENOVA, Ufficio di Igiene e Sanità
Genoa Municipality, Hygiene Dept.

ACRONYM:

See also

ADDRESS: Via Archimede 30 A,
16142 GENOVA.

Tel.: 513151

AFFIL.:

Title	PERSONNEL	Function
Prof.	G. Lombardo	Health Officer

AP aims and actions:

Surveillance of domestic and industrial emissions, with aid of 5-6 Vigili Sanitari (Health Inspectors).

Comments:

Cooperates closely with U
Genoa, Inst. of Hygiene

I.022 Comune di Genova, Ufficio di Igiene e Sanità

I [redacted] 023 REG A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 2
Country No Type Functions Sources Effects Controls Remedies Size Status

NAME: PROVINCIA DI GENOVA, Laboratorio Chimico
Genoa Province, Chemical Laboratory

ACRONY

See also

Tel.: 881480

AFFIL.:

AP aims and actions:

Developing a programme for surveillance of AP as required by new legislation.

Comments:

- Previous head (Dott'ssa M-T. Bottini) retired end 69.

Cooperates closely with Univ. of Genoa, Inst. of Hygiene (I.064) who have made previous surveys, but Lab. plan to have own monitoring equipment soon.

I.023 Provincia di Genova, Laboratorio Chimico 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
I [redacted]	024	REG	A B C ~~D~~ ~~E~~ F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 ~~22~~ ~~23~~ ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3		[redacted]	~~8~~ ~~7~~

NAME: PROVINCIA DI MILANO, Laboratorio Chimico

Milan Province, Chemical Laboratory

ACRONYM:

See also I.025 I.011 GB....

ADDRESS: Via Juvara 22
20129 MILANO

Tel.: 717.713

AFFIL:

Title	PERSONNEL	Function
Dott.Prof.	S. Allavena	director of Chemistry Lab.
Dott.	F. Pavelka	

AP aims and actions:

Measurement of AP in Milan as required by Law 615; establishing survey network with 5 Philips SO_2 telemeters (also used by Milan Municipality - I.025).
Have daily SO_2 data since 1967 - hourly since 1960.
Cooperating with Esso (GB....) in Smoke/SO_2 survey.
Have also studied polynuclear aromatics and Pb in air.

Comments:

Measurements only; health effects responsibility of Pharmacology Lab.

I.024 Provincia di Milano, Laboratorio Chimico 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
I [redacted]	025	MUN	A B C ~~D~~ E F	~~01~~ ~~02~~ 03 04 05	~~11~~ 12 13 14 15	21 22 23 ~~24~~ 25	~~31~~ ~~32~~ 33 34 35	~~L~~ M S	~~1~~ 2 3	2.70	[redacted]	~~8~~ ~~7~~

NAME: COMUNE DI MILANO, Ufficio di Igiene e Sanità

Milan Municipality, Hygiene Dept.

ACRONYM:

See also I.024

ADDRESS: Via Statuto 5.
Ø 21100 MILANO

Tel.: 8868

AFFIL:

Title	PERSONNEL	Function
Prof.	E. Suzzi - Valli	Ufficiale Sanitario (Health Officer), director of Dept
Dott.	A. Capponi	Head of Section IIbis, Fisica Sanitario (Health Physics) (see text).
total	1 5½P/30 NP on AP	

AP aims and actions:

Measurements of smoke, dust and SO_2 in Milan ~1960 to 1969. Now cooperating with Provincial Lab. (I.024) by providing sites and service.
Assisting Fire Dept. in conversion of domestic heating plant to gas-oil firing.
Assisted with road-side survey of car emissions (CO at idle) (see text).

Comments:

Ø Location of AP office till end-70: Via Palermo 19.
AP work much enlarged recently and still growing.

I.025 Comune di Milano, Ufficio di Igiene e Sanità 2.70

I [redacted]	026	MUN	A B C D [✓ E] F	01 [✓ 02] 03 04 05	[✓ 11] 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	2.70	[redacted] S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: COMUNE DI PIACENZA, Ufficio di Igiene e Sanità
Piacenza Municipality, Hygiene Dept.

ACRONYM:

See also

ADDRESS: Via San Marco 1,
29100 PIACENZA.

Tel.: 31756

AFFIL.:

Title	PERSONNEL	Function
Dott.	P. Biggio + 2P	Health Officer

AP aims and actions:
Will be setting up own monitoring stations.

Comments:
Concerned about A & WP and application of legislation. Not yet involved in practical work, but local AP measurements made by ENEL around power stations.
Dr. Biggio has article on AP in 'Tecnica Sanitaria'.

I.026 Comune di Piacenza, Ufficio di Igiene e Sanità 2.70

I [redacted]	027	MUN	A B C D [✓ E] F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	2.70	[redacted] S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: COMUNE DI LA SPEZIA, Ufficio di Igiene e Sanità
La Spezia Municipality, Hygiene Dept.

ACRONYM:

See also

ADDRESS: Via Prione 240,
19100 LA SPEZIA.

Tel.: 31307

AFFIL.:

Title	PERSONNEL	Function
Dott.	A. Battini	Health Officer

AP aims and actions:

Comments:
Very conscious of A & WP problems; no monitoring work yet, but local AP measurements made by ENEL round power stations.

I.027 Comune di La Spezia, Ufficio di Igiene e Sanità 2.70

I [redacted]	028	REG	A B C D [✓ E] F	01 02 03 04 05	11 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: PROVINCIA DI LA SPEZIA, Laboratorio Chimico
La Spezia Province, Chemical Laboratory

ACRONYM:

See also

ADDRESS: Via Vittorio Veneto 2,
19100 LA SPEZIA.

Tel.: 33413

AFFIL:

Title	PERSONNEL	Function
Dott.	P. Mortara	head of Lab.

AP aims and actions:

Comments:
Sees no special problems in this area as yet. Will be involved in surveillance etc. for application of Law 615.

I.028 Provincia di La Spezia, Laboratorio Chimico 2.70

I [redacted]	029	REG	A B C [✓ D] [✓ E] F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 [✓ 23] [✓ 24] 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	2.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: PROVINCIA DI TORINO, Laboratrio Chimico
Turin Province, Chemical Laboratory

ACRONYM:

See also

ADDRESS: Via San Domenico 22,
10129 TORINO.

Tel.: 543417

AFFIL:

Title	PERSONNEL	Function
Dott.	F. Biglietti	head of Lab.
	+ 2P	

AP aims and actions:
6 monitoring stations (smoke, SO_2) being installed in Turin urban area.

Comments:
Responsible for application of Law 615.

I.029 Provincia di Torino, Laboratorio Chimico 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
I	030	MUN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	2.70	S T

NAME: COMUNE DI TORINO, Ufficio di Igiene e Sanita

Turin Municipality, Hygiene Dept.

ACRONYM:

See also

ADDRESS: Via Consolata 10,
10143 TORINO.

Tel: 5765

AFFIL:

Title	PERSONNEL	Function
Prof.	G. Turletti	Health Officer
Prof.	G. Dall'Acqua	asst. for P problems *
	3P on AP	

AP aims and actions:

Studies of polynuclear aromatics and CO from vehicle exhausts.

Surveys of ambient particulates in Turin.

Comments:

Cooperates closely with Provincial Lab. (I.029), who have equipment for surveys.

* Prof. of Hygiene at Turin Univ.

I.030 Comune di Torino, Ufficio di Igiene e Sanita 2.70

I [redacted] 041 ASN A ~~B~~ C D E ~~F~~ 01 02 03 04 05 11 12 13 14 ~~15~~ 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 ~~2~~ 3 2.70 [redacted] S ~~T~~
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CONFEDERAZIONE GENERALE DELL'INDUSTRIA ITALIANA
General Confederation of Italian Industry

ACRONYM: Confindustria
See also

ADDRESS: Palazzo Venezia,
Piazza Venezia,
001 ROMA.

Tel.: 6772

AFFIL:

Title	PERSONNEL	Function
Ing.	R. Lombardi	president
Dott.	M. Morelli	secretary general
Dott.	A. Della Bruna	coordinator for AP
Ing.	S. Cristofori	" " (Milan)

AP aims and actions:

Represents views of Italian industry in discussions with government.
Studies implications of A/WP regulations and advises members.

Comments:

Nationalised industries are not represented.

I.041 Confederazione Generale dell'Industria Italiana 2.70

I [redacted] 042 IND A B C ~~D~~ E ~~F~~ 01 ~~02~~ 03 04 05 11 12 13 14 15 21 22 23 ~~24~~ 25 31 32 ~~33~~ 34 35 L ~~M~~ S 1 ~~2~~ 3 2.70 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ENEL * , Laboratorio di Ricerca
National Electricity Organisation, Research Laboratory

ACRONYM: ENEL
See also

ADDRESS: Via Nino Bixio 27,
291 PIACENZA.

Tel.: 21267

AFFIL:

Title	PERSONNEL	Function
Dott.	P.Sturla	director of lab.
Ing.	R.Gasparini	(Rome) resp. for AP policy
Prof.	Angelini	(Rome) director general

AP aims and actions:

Have made surveys of particulates and SO_2 around several ENEL power stations. incl. use of balloons.
Evaluation of flue gas desulphurization processes.

Comments:

* Ente Nazionale per l'Energia Elettrica. Rome address:-
Via G.B.Martini 3,
00198 ROMA. Tel: [illegible]

Has developed tall stack policy.

I.042 ENEL, Laboratorio di Ricerca 2.70

I [redacted] C44 ASS A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 7.75 [redacted] S F

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ASSOCIAZIONE NAZIONALE DELL'INDUSTRIA CHIMICA
National Association of the Chemical Industry

ACRONYM: ASCHIMICI

Size etc:

ADDRESS: Via Fatebenefratelli 10,
20121 MILANO.

Tel: 666.292

AFFIL:

Title	PERSONNEL	Function
Dott.	D. Linarve	

AP aims and actions:

Comments: Not yet very active in AP; each member co. handles own problems. Proposing to set up AP advisory committee.

1.044 Associazione Nazionale dell'Industria Chimica (ASCHIMICI) 7.75

I [redacted] C45 ASS A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 7.75 [redacted] S F

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CENTRO RISCALDAMENTO COMBUSTIBILI LIQUIDI
Liquid Fuels Heating Centre

ACRONYM: CRCL

Size etc:

ADDRESS: Via G. Govone 56,
20155 MILANO.

Tel: 315766

AFFIL: Italian petroleum companies.

Title	PERSONNEL	Function
Dott.	V. Giovagnoni	president
Ing.	G. Zerbo	general secretary

AP aims and actions: Consultative and advisory: have reviewed heating regulations and commented to Min. Public Health. Informative meetings, conferences and publications.

Comments:

1.045 Centro Riscaldamento Combustibili Liquidi (CRCL) 7.75

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date
I [redacted]	046	NAT	A [✓ B] C D E F	[✓ 01] 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	2.70 [redacted] 5 7

NAME: COMITATO UNIFICAZIONE NAZIONALE AUTOVEICOLI
National Committee for Vehicle Standardisation

ACRONYM: CUNA

See also

ADDRESS: Corso G. Ferraris 6 1,
TORINO.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Dott.	L. Paré	president

AP aims and actions:

Correlation of vehicle emission test techniques; development of production-line test cycle; preparation and test procedure of line of reference gases.

Comments:

Supported by petroleum and motor industries.

I.046 Comitato Unificazione Nazionale Autoveicoli (CUNA) 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date
I [redacted]	047	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	2.70 [redacted] 5 T

NAME: FEDERAZIONE DELLE ASSOCIAZIONI SCIENTIFICHE E TECNICHE
Federation of Scientific and Technical Associations

ACRONYM: FAST

See also

ADDRESS: Piazzale R. Morandi 2,
20121 MILANO.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Dott.	L. Rossari	president
Dott.	A. Camino	secretary

AP aims and actions:

Coordination of information through Wkg. Gps. (WP already; AP not yet).
Arranges many conferences; some proceedings published.

Comments:

I.047 Federazione delle Associazioni Scientifiche e Tecniche (FAST) 2.70

I [redacted] 048 ATN A ~~B~~ C D E F ~~01~~ 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 ~~32~~ 33 34 35 L M S 1 2 3 2.70 [redacted] T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ASSOCIAZIONE TECNICA AUTOMOBILE

Automobile Technical Association

ACRONYM: ATA

See also I.046

ADDRESS: Via Massena 20.
TORINO.

Tel:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Cooperates with CUNA (I.046) in all aspects of vehicle AP. Coordinates available information.

Comments:

I.048 Associazione Tecnica Automobile

I [redacted] 049 ATN A ~~B~~ C D E F ~~01~~ 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 2.70 [redacted] T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ASSOCIAZIONE NAZIONALE FRA INDUSTRIA AUTOMOBILISTICHE

National Association of the Automobile Industry

ACRONYM: ANFIA

See also I.046

ADDRESS:

Tel:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Forum for AP etc discussions; practical work through FIAT/ENI/Esso/-Mobil aggreement (I.055).

I.049 Associazione Nazionale fra Industrie Automobilistiche (ANFIA)

I [redacted] 050 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 2.70 [redacted]

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: UNIONE PETROLIFERA

Petroleum Industry Association

ACRONYM: UP

ADDRESS: Via Buffalini 5,
00161 ROMA.

Tel: 857.727

AFFIL: All major oil co's except ENI

Title	PERSONNEL	Function
	*	president
Dott.	M. Fairicolo	general manager
Dott.	Beer	economics affairs dept. hd.
Sign.	M. Wenzel	economics and AP coordn.

AP aims and actions:

Wkg. Gp. (Commissione per lo Studio dei Problemi d'Inquinamento) studies implications of Industry's activities for pollution problems, and makes recommendations to Board of UP. Comments on proposed regulations.

Studying monitoring techniques and equipment for SO_2 & particulates to recommend standard for official use.

Reviewing fuel oil and flue gas desulphurisation process possibilities.

Comments:

Vehicle emission matters mostly left to CUNA & ANFIA (I.046, I.049).

ENI invited on to Wkg. Gp.

* to be nominated

I.050 Unione Petrolifera (UP) 2.70

I [redacted] 052 IND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 2.70 [redacted]

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: ENTE NAZIONALE IDROCARBURI

National Petroleum Organisation

ACRONYM: ENI

ADDRESS: 00100 ROMA.

Labs at:
20097 SAN DONATO MILANESE.

Tel:

AFFIL:

Title	PERSONNEL	Function
Ing.	I. de Vita	coordinator for AP
Ing.	Marchetti	
Ing.	Ottaviani	

AP aims and actions:

Have studied effects of fuel modifications on vehicle exhaust emissions.

Studies of combustion efficiency.

Cooperates with Fiat/Esso/Mobil on vehicle emission research agreement (I.055).

Have commissioned ISVE (Istituto per lo Sviluppo Economico - Institute for Economic Development) to prepare study of the economics of AP damage.

Comments:

Nationalised (State) body.

I.052 ENI - Ente Nazionale Idrocarburi 2.70

I [redacted]	053	TND	[✓ A] B C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 [✓ 32] 33 34 35	L [✓ M] S	1 [✓ 2] 3	2.70 [redacted] S [✓ I]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: FABBRICA ITALIANA AUTOMOBILE TORINO
'Fiat'

ACRONYM: FIAT

See also 1.055

ADDRESS: Corso Agnelli 200,
10100 TORINO.

Tel:

AFFIL:

Title	PERSONNEL	Function
Ing.	Montabone	head of Tech. Division.
Ing.	Pollone	coordinator for AP
Dott'ssa	Marciante	head of AP Lab.

AP aims and actions:

Development of fully detoxed cars.
Member of Fiat/ENI/Esso/Mobil research agreement on exhaust emissions etc. (1.055).

Comments:

1.053 FIAT - Fabbrica Italiana Automobile Torino 2.70

I [redacted]	054	TND	[✓ A] B C D E [✓ F]	[✓ 01] [✓ 02] 03 04 [✓ 05]	11 12 13 14 [✓ 15]	21 22 23 [✓ 24] 25	[✓ 31] [✓ 32] 33 34 35	[✓ L] M S	1 [✓ 2] 3	2.70 [redacted] I
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: ESSO STANDARD ITALIANA, Centro Ricerche
" Research Centre

ACRONYM: ESI

See also

ADDRESS: Piazzale dell'Industria 46,
00144 ROMA.

Tel: 6470151

AFFIL: Std.Oil New Jersey.

Title	PERSONNEL	Function
Dott.	A. Reiter	director of research
Dott.	A. Barbieri	coordinator for AP etc.
Dip.Ing	H. Siering	
Ing.	M. Camarsa	
	total 8 P/NP on AP.	

AP aims and actions:

Studies of vehicle emissions and research into detoxing systems to reduce $CO/HC/NO_x$ to very low levels.
Member of FIAT/ENI/Esso/Mobil agreement (1.055) on cooperative vehicle emissions research.
Surveying SO_2/particulates around refineries; also in Milan in cooperation with Esso UK (see GB. , 1.024, 1.011).

Comments:

1.054 Esso Standard Italiana 2.70

I [redacted]	055	TND	~~A~~ B C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	~~31~~ 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	2.70	[redacted]	S ~~F~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: FIAT/ENI/ESSO/MOBIL RESEARCH AGREEMENT

ACRONYM:

See also 1.053-52-54-78.

ADDRESS: participants' addresses.

Tel.:

AFFIL.: participants

Title	PERSONNEL	Function
	participants' personnel	

AP aims and actions:

Agreement to undertake cooperative programme to study detoxing systems for cars and the effects of fuel quality, and to obtain measurements of urban air quality (SO_2 CO Oxidant Pb NO_x Particulates) in Rome, Milan, Turin.

Comments:

Agent for urban survey is Inst.Hyg. of Rome University (1.078).

1.055 Fiat/ENI/Esso/Mobil Research Agreement 2.70

I [redacted]	061	ACD	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	2.70	[redacted]	S I
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: UNIVERSITÀ DI BOLOGNA, Istituto di Igiene

Bologna University, Institute of Hygiene

ACRONYM:

See also

ADDRESS: Via San Giacomo 12,
BOLOGNA.

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Prof.Dott	P. Ambrosini	director
Prof.Dott	Zanetti	concerned with AP

AP aims and actions:

Studies of SO_2 polynuclear aromatics & As.

Comments:

1.061 U. di Bologna, Istituto di Igiene 2.70

I [redacted] 062 A/D [✓ A] B C D E F 01 02 03 [✓ 04] 05 11 [✓ 12] 13 14 15 21 22 23 24 25 31 32 33 34 35 L M [✓ S] 1 2 [✓ 3] 2.70 [redacted] T
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITÀ DI FERRARA, Istituto di Igiene
Ferrara University, Institute of Hygiene

ACRONYM:

See also

ADDRESS: Corso Giovecca 173A,
FERRARA.

Tel:

AFFIL:

Title	PERSONNEL	Function
Dott.	B. Paccagnella	director

AP aims and actions:

General studies of AP, especially from industry; effects of F on vegetation.

Comments:

I.062 U. di Ferrara, Istituto di Igiene 2.70

I [redacted] 063 A/D [✓ A] B C D E F [✓ 01] 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M [✓ S] 1 2 [✓ 3] 2.70 [redacted] T
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITÀ DI FIRENZE, Istituto di Igiene
Florence University, Institute of Hygiene

ACRONYM:

See also

ADDRESS: Viale G.B. Morgagni 48,
FIRENZE.

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.	G. Mazetti	director

AP aims and actions:

Measurements of AP due to vehicles.

Comments:

I.063 U. di Firenze, Istituto di Igiene 2.70

I [redacted] 064 ACD ~~A~~ ~~B~~ C ~~D~~ E F ~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~ ~~11~~ 12 ~~13~~ 14 15 21 ~~22~~ 23 ~~24~~ 25 31 32 33 34 35 ~~L~~ M S ~~1~~ 2 3 2.70 [redacted] S ~~T~~

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: UNIVERSITÀ DI GENOVA, Istituto di Igiene

Genoa University, Institute of Hygiene

ACRONYM:

See also

ADDRESS: Via A. Pastore 1,
16132 GENOVA.

Tel.: 515013

AFFIL:

Title	PERSONNEL	Function
Prof.	F. L. Petrilli	director
Prof.	S. Kanitz	concerned with AP work
	total of about 8 on AP	

AP aims and actions:

Studied epidemiology of tetramethyl lead and garage workers.
Measured peroxyacyl nitrates in Genoa air.
Studied problems of sizing and analysing particulates.
Recently completed 2-yr survey of AP in road tunnels along coast: CO/NO_x/Pb in air, cars, and drivers' blood vs ventilation and smoking habits.
Reviewed SO_2 monitoring equipment for ECE (X.003).
Publishes: "Giornali di Igiene e Medicina Preventiva", (4/yr, L18000 abroad).

Comments:

Active since 1955.
Have documentation centre.
Have mobile lab.
Prof. Petrilli is consultant for industry.

I.064 U. di Genova, Istituto di Igiene 2.70

I [redacted] 065 ACD A ~~B~~ C D E F 01 02 ~~03~~ 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 ~~35~~ L M ~~S~~ 1 ~~2~~ 3 2.70 [redacted] S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: UNIVERSITÀ DI GENOVA, Istituto di Impianti Chimici

Genoa University, Institute of Chemical Plant

ACRONYM:

See also

ADDRESS: Via dell'Opera Pia 2,
161[illegible] GENOVA.

Tel.: 317748

AFFIL:

Title	PERSONNEL	Function
Prof.Ing	G. Ferraiolo	

AP aims and actions:

Comments:

Prof. Ferraiolo is consultant for industry in AP matters.

I.065 U. di Genova, Istituto di Impianti Chimici 2.70

I [redacted] 066 ACD A B C ~~D~~ E F 01 ~~02~~ ~~03~~ 04 05 11 12 13 14 15 21 ~~22~~ 23 ~~24~~ 25 31 ~~32~~ ~~33~~ ~~34~~ ~~35~~ L M ~~S~~ 1 ~~2~~ 3 2.70 [redacted] T
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITÀ DI GENOVA, Istituto di Chimica Industriale
University of Genoa, Institute of Industrial Chemistry

ACRONYM:

See also

ADDRESS: Via A. Pastore 3,
16132 GENOVA.

Tel.: 515016

AFFIL:

Title	PERSONNEL	Function
Prof.	C. Rossi	director
Prof.	S. Munari	consultant, asst prof.
	3P on AP	

AP aims and actions:

Undertook AP survey for Garrone refinery.
Provides consultancy service for chemical and petroleum companies in area.
Studies of correlation between atmosphere and pollution.

Comments:

I.066 U. di Genova, Istituto di Chimica Industriale 2.70

I [redacted] 067 ACD ~~A~~ B C D E F 01 ~~02~~ 03 04 05 11 12 13 14 15 21 22 23 ~~24~~ 25 31 32 33 34 35 L M ~~S~~ 1 ~~2~~ 3 2.70 [redacted] T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITÀ DI MILANO, Istituto di Igiene
Milan University, Institute of Hygiene

ACRONYM:

See also

ADDRESS: Via Sforza 35,
20100 MILANO.

Tel.: 541937

AFFIL:

Title	PERSONNEL	Function
Prof.	A. Giovanardi	director

AP aims and actions:

Studies of ambient pollution, especially from domestic heating. (Smoke, SO_2)

Cross correlation of reflectance/mass of smoke with MRC London

Comments:

I.067 U. di Milano, Istituto di Igiene 2.70

I [redacted]	068	ACD	~~A~~ B C D E F	01 02 ~~03~~ ~~04~~ 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M S	1 2 3	2.70	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: UNIVERSITÀ DI MILANO, Istituto di Medicina del Lavoro

University of Milan, Institute of Occupational Hygiene

ACRONYM:

See also

ADDRESS: Via San Barnaba 8,
20100 MILANO.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	E. C. Vigliani	director
Prof.	N. Zurlo	head of lab. and clinic *
	A.M. Griffin	

AP aims and actions:

General studies of AP. Occupational hygiene aspects of industrial pollution (F, acrolein).
Methods of analysis; mathematics of dispersion.

Pb in blood and urine of exposed adults

Comments:

* Lab. of Industrial Hygiene and Toxicology + Working Health Clinic

I.068 U. di Milano, Istituto di Medicina del Lavoro 2.70

I [redacted]	069	ACD	A B C ~~D~~ E F	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	2.70	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: POLITECNICO DI MILANO, Istituto di Ingegneria Sanitaria

Milan Technical University, Institute of Health Engineering

ACRONYM:

See also

ADDRESS: Piazza L. da Vinci 36,
MILANO.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	D. F. Frangipane	director

AP aims and actions:

Survey of SO_2/particulates in Milan for Shell Italiana.
Investigation and measurement of F in Milan.

Comments:

I.069 Politecnico di Milano, Ist. di Ingegneria Sanitaria 2.70

I [redacted] 070 REG ~~A~~ B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 ~~24~~ 25 31 32 33 34 35 L ~~M~~ S 1 ~~2~~ 3 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: OSSERVATORIO METEOROLOGICO DI BRERA

Brera Meteorological Observatory

ACRONYM:

See also

ADDRESS: Via Brera 28,
20100 MILANO.

Tel.: 870630

AFFIL:

Title	PERSONNEL	Function
Prof.	F. Zagar	director
Prof.	L. Santomauro	section head *

AP aims and actions:

Atmospheric boundary layer research.
Effects of meteorology (micro, meso and macro) on dispersion from stacks.

Comments:

* Met. & Geophysics Section.
Consultant for Industry.

I.070 Osservatorio Meteorologico di Brera

I [redacted] 071 ACD A B C ~~D~~ E F 01 02 03 04 05 ~~11~~ 12 13 14 15 21 22 23 ~~24~~ 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 2.70 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITÀ DI NAPOLI. Istituto di Medicina del Lavoro

Naples University, Institute of Occupational Hygiene

ACRONYM:

See also

ADDRESS: Policlinico,
Piazza Missaglia,
NAPOLI.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	S. Caccurri	director

AP aims and actions:

Measurements of AP in the urban areas of Naples.

Comments:

I.071 U. di Napoli, Istituto di Medicina del Lavoro 2.70

I [redacted] 072 ACD [✓ A] B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 [✓ 24] 25 31 32 33 34 35 L M [✓ S] 1 2 [✓ 3] 2.70 [redacted] T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITÀ DI NAPOLI, Istituto di Chimica Analitica
University of Naples, Institute of Analytical Chemistry

ACRONYM:
See also

ADDRESS: Via Mezzocannone 4,
NAPOLI.

Tel.:
AFFIL.:

Title	PERSONNEL	Function

AP aims and actions:
Measurements of polycyclic hydrocarbons in atmospheric dust.

Comments:

I.072 U. di Napoli, Istituto di Chimica Analitica

I [redacted] 073 ACD A B C [✓ D] E F 01 02 03 04 05 11 12 13 14 15 21 22 23 [✓ 24] 25 31 32 33 34 35 L M [✓ S] 1 2 [✓ 3] 2.70 [redacted] T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITÀ DI PADOVA, Istituto di Igiene
Padua University, Institute of Hygiene

ACRONYM:
See also

ADDRESS: Via Loredan 18,
PADOVA.

Tel.:
AFFIL.:

Title	PERSONNEL	Function
Prof.	R. Vendramin	director

AP aims and actions:
Measurements of SO_2 in Venezia Mestre and city and Lido.

Comments:
Survey done by Dott. Faccagnella, now at U. di Parma (I.074).

I.073 U. di Padova, Istituto di Igiene 2.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remarks	Size	Status	Date

NAME: UNIVERSITA' DI PARMA, Istituto di Igiene
Parma University, Institute of Hygiene

ACRONYM:

ADDRESS:

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.	Paccagnella	director

AP aims and actions:

Comments:
Prof. Paccagnella was at Padua Univ. (1,077), where he assisted in the SO2 survey of Venezia Mestre.

1,074 U. di Parma, Istituto di Igiene

Country	No.	Type	Functions	Sources	Effects	Controls	Remarks	Size	Status	Date

NAME: UNIVERSITA' DI PERUGIA, Istituto di Igiene
Perugia University, Institute of Hygiene

ACRONYM:

ADDRESS: Policlinico Monteluce,
Via del Giochetto,
PERUGIA.

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.	A. Seppilli	director
Prof'ssa	A. Candeli	dep. director
	A. Mastrandrea	
	A. Savino	

AP aims and actions:
Measurements of polycyclic hydrocarbons in ambient dust in tunnels and confined spaces. (1966)

Comments:

1,075 U. di Perugia, Istituto di Igiene 2.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
I [redacted]	076	ACD	~~A~~ B C ~~D~~ E F	~~01~~ ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	2.70	[redacted] S ~~F~~

NAME: UNIVERSITÀ DI ROMA, Istituto di Igiene
Rome University, Institute of Hygiene

ACRONYM:

See also I.055

ADDRESS: Città Universitaria,
00100 ROMA.

Tel: 4991

AFFIL:

Title	PERSONNEL	Function
Prof.	V. del Vecchio	director
Prof.	F. Valori	responsible for AP
	1+4P/3SP (3 chem; 1 biol;	3 tech)

AP aims and actions:

Measurements of ambient AP in Rome, Milan and Turin in 1956-62 (variously CO, Pb, PNA's & As). To continue?
Agent for proposed FIAT/etc cooperative programme (see I.055) to start mid-1970.
Measurements of 24 different PNA's (+ CO/HC/NO_x) in car exhaust gases with different detoxing systems and different fuels.
Represented in special commission within Public Health Dept. studying catalytic detoxing.

Comments:

I.076 U. di Roma, Istituto di Igiene 2.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
I [redacted]	077	ACD	~~A~~ B C D E F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ ~~33~~ ~~34~~ 35	L ~~M~~ S	1 ~~2~~ 3	2.70	[redacted] S T

NAME: UNIVERSITÀ DI ROMA, Istituto di Chimica Analitica
University of Rome, Institute of Analytical Chemistry

ACRONYM:

See also I.006

ADDRESS: Città Universitaria,
00185 ROMA.

Tel: 490,420

AFFIL:

Title	PERSONNEL	Function
Prof.	A. Liberti	director
Dott.	V. Cantuti	

AP aims and actions:

General studies of AP, especially industrial.

Comments:

Both Prof. Liberti and Dott. Cantuti are closely associated with CNR's AP work (I.006).

I.077 U. di Roma, Istituto di Chimica Analitica 2.70

I [redacted] 071 ATD ∅ B C D E F 01 ∅∅∅ 05 11 12 13 14 15 21 22 23 ∅∅ 31 32 33 34 35 L M ∅ 1 ∅ 3 7.79 [redacted] 3 ∅

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNIVERSITA DI TRIESTE, Istituto di Fisica Tecnica
Trieste University, Institute of Technical Physics

ACRONYM:

Size
abs

ADDRESS: Via A. Valerio 10,
34127 TRIESTE.

Tel: 77.52.81

AFFIL:

Title	PERSONNEL	Function
Prof.	B. Finzi-Contini	director

AP aims and actions:
Preparation of computer models for atmospheric diffusion.
Measurements of the natural decay period of SO_2.

Comments:
Prof. Finzi-Contini is a consultant for industry in AP matters.

I.079 U. di Trieste, Istituto di Fisica Tecnica 2.79

I [redacted] 071 CDT A ∅ C D E F 01 ∅∅∅ 05 11 12 13 14 15 21 22 23 24 25 ∅∅∅ 34 35 L M ∅ ∅ 2 3 7.79 [redacted] 3 ∅

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: Prof. C. PADOVANI

ACRONYM:

Size
abs

ADDRESS: M.I.T.
San Donato Milanese.

Tel: 519177

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:
Consultant on industrial and domestic heating AP. (incl ENEL - I.042).
Studies of flue gas desulphurization.

Comments:
Formerly director of Stazione Sperimentale per Combustibili (I.011), now retired.

I.081 Prof. C. Padovani 2.79

[illegible] [redacted] [illegible] [redacted] [illegible]

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: Prof. R. [illegible]

ACRONYM:

Size

ADDRESS: Corso Re Umberto 87,
10100 TORINO.

Tel: 597729

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Consultant on Industrial AP.
Member of Commission for ENEL power station at Vado Ligure, Genoa.

Comments:

Formerly dean of Eng's Faculty at Turin Polytechnic, now retired.

1,082 Prof. R. [illegible] [illegible]

[illegible] [redacted] [illegible] [redacted] [illegible]

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: LEGA ITALIANA CONTRO I FUMI ED I RUMORI
Italian League against Smoke and Noise

ACRONYM:

Size

ADDRESS:
MILANO

Tel:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Publishes monthly magazine.

Comments:

Association of companies and individuals.
Has regional office in Turin.

1,083 Lega Italiana contro i Fumi ed i Rumori [illegible]

I [redacted] 086 200 A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 2.70 [redacted] S F

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: "ITALIA NOSTRA"
"Our Italy"

ACRONYM:

See also

ADDRESS:

Tel:

AFFIL: Centro Studi Attivita Politica (CSAP).

Title	PERSONNEL	Function
Avv.	Cutrera	
Avv.	Torriani	

AP aims and actions:

Civic group for environmental conservation, with branches in most parts of Italy.
Programmes for clean air in Milan.

Comments:

I.086 'Italia Nostra'

I [redacted] 087 200 A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 2.70 [redacted] S F

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CENTRO REGIONALE INQUINAMENTO ATMOSFERICO LOMBARDIA
Regional Atmospheric Pollution Centre of Lombardy

ACRONYM: CRIAL

See also

ADDRESS: 20100 MILANO.

Tel:

AFFIL:

Title	PERSONNEL	Function
Dott.	E. Peracchi	president

AP aims and actions:

Civil organisation pressing for clean air in Milan area.

Comments:

I.087 Centro Regionale Inquinamento Atmosferico Lombardia (CRIAL) 2.70

I [redacted] 088 TNP A ~~B~~ C D E F ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~11~~ ~~12~~ 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 2.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: "NUOVI ANNALI D'IGIENE E MICROBIOLOGIA"

ACRONYM:

See also

ADDRESS: Via Panama 48,
00198 ROMA.

Tel:

AFFIL: "Il Pensiero Scientifico"
CNR (I.006).

Title	PERSONNEL	Function

AP aims and actions:

Carries articles on hygiene aspects of AP (from eg U. di Genova, Ist. di Ig.).

Comments:

6/yr. Li 6000 abroad.

I.088 'Nuovi Annali d'Igiene e Microbiologia' 2.70

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JAPAN - JA

JA	001	GOV	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	1969	/ /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Environmental Pollution Control Council

Kogai Taisaku Kaigi

ACRONYM:

See also JA-002 to JA-004

ADDRESS:

3-4, Kasumigaseki,
Chiyoda-ku, Tokyo

Tel.:

AFFIL:

Prime Minister's Office
(Sohri Fu) (003,004)

Title	PERSONNEL	Function

AP aims and actions: Created by Basic Law for Environmental Pollution Control (#132-1967 - Chapter 4 - Articles 25 & 26) to (1) Plan environmental pollution control, and (2) Review the planning and policies of government agencies.

The general affairs of the council are managed by the Environmental Sanitation Bureau of the Ministry of Health and Welfare.

Comments:

JA 001

Composition of the Council

The Prime Minister (Chairman)
Director of Cabinet Secretariat
Director of Prime Minister's Office
Chairman of National Public Safety Commission
Chairman of Metropolitan Area Development Committee
Chairman of Kinki Area Development Committee
Chairman of Chubu Area Development Committee
Director of Economics & Planning Bureau, Prime Minister's Office
Director of Science & Technology Bureau, Prime Minister's Offics
Minister of Justice
Minister of Finance
Minister of Finance
Minister of Agriculture & Forestry
Minister of International Trade and Industry
Minister of Transportation
Minister of Labor
Minister of Construction
Minister of Autonomy
Minister of Health and Welfare

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JA	002	GOV	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	1969	~~8~~ ~~7~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central Advisory Council for Environmental Pollution Control
Chuo Kogai Taisaku Shingi Kai

ACRONYM:

See also JA-001, 003, 004

ADDRESS:

3-4, Kasumigaseki,
Chiyoda-ku, Tokyo

Tel.:

AFFIL:

Prime Minister's Office
(Sohri-Fu) (003,004)

Title	PERSONNEL	Function

AP aims and actions: Created by Basic Law for Environmental Pollution Control (#132-1967) - Chapter #4 - Articles 27 and 28) to (1) examine and deliberate on fundamental matters having to do with environmental pollution control and (2) advise on matter referred to it by Environmental Pollution Control Council and Prime Minister.

Comments: The general affairs of the Advisory Council are managed by the Environmental Sanitation Bureau of the Ministry of Health and Welfare.

JA 002

K. Wadachi (President, Saitama University) Chairman
T. Akiyama (Secretary General, International Association of Piers and Harbors)
K. Oyama (Chairman, Public Safety Examination Commission)
S. Okinaka (President, Toranomon Hospital)
T. Kato (Governor, Okayama Prefecture)
F. Kanaseshi (Governor, Kawasaki City)
Y. Kanazawa (Professor, Tokyo University)
M. Kurokawa (Advisor, High Pressure Gas Safety Association)
M. Kuwahara (Governor, Aichi Prefecture)
T. Shirasawa (President, Japan Nuclear Electric Power Co.)
T. Shindo (Chairman, Industrial Public Nuisance Control Assoc. (Sangyo Kogai Boshi Kyokai)
Y. Takada (Vice Chairman, Housewives Association)
E. Takayama (Professor, Tokyo University)
H. Tanikawa (Professor Emeritus, Chiba University)
J. Nakagawa (Chief editor, Japan Economical News, (Nippon Keizai Shinbun)
K. Hirata (Chairman, Japan Management Information Development Assoc. (Nippon Keiei Joho Kaihatsu Kyokai)
T. Horikoshi (Secretary General, Federation of Economic Associations)
Y. Matsue (Professor Emeritus, Tokyo University)
R. Yamazoe (Chairman, Central Council for Fisheries (Chuo Gyogyo Chosei Shingi Kai)

JA	003	GOV	~~A~~	~~B~~	C	D	E	~~F~~	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	1969		~~9~~	~~1~~
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Science and Technology Bureau

Kagaku Gijutsu-Cho

ACRONYM:

See also JA-001,002, and 004
321

ADDRESS:

3-4, Kasumigaseki,
Chiyoda-ku, Tokyo

Tel.:

AFFIL:

Prime Minister's Office
Sohri-Fu

Title	PERSONNEL	Function
	Mitsugu Ishizuka	
Mr.	Teruo Ishikawa	Director, Research & Investigation Bureau

AP aims and actions: Administers Environmental Science and Technology Developmental Promotion Budget, Japan Information Center of Science and Technology, National Research Center for Disaster Prevention, National Institute of Radiological Sciences and other institutions.

Comments:

5. Annual Report
1959/a/60p/B5/nfs/Europ/Non/B2

52. Bulletin (Kagaku Gijutsu-cho Geppo)
Okura-Sho Insatsu-Kyoku;
Z. Akasaka Aoi-cho, Minato-ku, Tokyo
1958/m/30 p/B5/¥50/Jap/Non/
B1, B2

JA 003

Annual Report (Kagaku Gijutsu-cho Nenpo)
Okura-sho Insatsu-kyoku; 2. Akasaka Aoi-cho, Minato-ku, Tokyo
1957/a/390 p/B5/#750/Jap/Non/B2

Progress in Science and Technology (Kagaku Gijutsu Chosa)
1957/irr/95 p/B5/nfs/Jap/Non/B1

Responsible for International Relations with Organization for Economic Cooperation and Development, and US-Japan Air Pollution coordination.

JA	004	GOV	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 ~~15~~	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969		S ~~T~~
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Economics and Planning Bureau
Keizai Kikaku-cho

ACRONYM:

See also JA-001,002 and 003

ADDRESS:
3-1, Kasumigaseki,
Chiyoda-ku, Tokyo

Tel.:

AFFIL:
Prime Minister's Office
Sohri-Fu

Title	PERSONNEL	Function
	Itaru Ando	Economic Planning Research Institute (Keizai Kikaku-cho Keizai Kenkyusho

AP aims and actions:

Research Areas: Economic Effects of Air Pollution.

Comments:

Responsible for:
1. Economic Deliberation Council (Keizai Shingikai)

2. Living Standards Improvement Council (Kokumin Seikatsu Shingikai)

JA	005	GOV	A ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Science Council of Japan
Nihon Gakujutsu Kaigi

ACRONYM:

See also JA-001, 002

ADDRESS:
Uenokoen, Taito-ku
Tokyo

Tel.:

AFFIL:
Prime Minister's Office
(Sohri Fu) (003, 004)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Report (Nihon Gakujutsu Kaigi Geppo)
1960/m/25p/B5/nfs/Jap/Non/B2

JA	006	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: National Research Center for Disaster Prevention

Kokuritsu Bosai Kagaku Gijutsu Senta

ACRONYM:

See also JA-001, 002, 004

ADDRESS:

6-15-1, Ginza
Chuo-ku, Tokyo

Tel.:

AFFIL: Prime Minister's Office (003)
(Sohri-Fu)
Science and Technology Bureau
(Kagaku Gijutsu Cho)

Title	PERSONNEL	Function
Dr.	Yukio Ozawa	Chief, Laboratory
	Satoshi Iwakiri	Researcher
	Kumio Inone	Researcher

AP aims and actions:

Research from a meteorological viewpoint especially on atmospheric diffusion.

Comments:

Research Notes (Kokuritsu Bosai Kagaku Gijutsu Senta Kenkyu Hohkoku
1965/irr/10 p/B5/nfs/Jap.Europ/Non/A

JA	007	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: National Institute of Radiological Sciences

Hoshasen Igaku Sogo Kenkyusho

ACRONYM:

See also JA-001 to 004, 041; 113;

ADDRESS:

4-9-1, Anakawa, Chiba-shi,
Chiba-ken

Tel.:

AFFIL: Prime Minister's Office
(Sohri-Fu)
Science and Technology Bureau
(Kagaku Gijutsu Cho) (003)

Title	PERSONNEL	Function
	M. Abe	
D. Sc.	S. Abe	

AP aims and actions:

Research Areas: Lung dynamics model.

Comments:

Annual Report (Hoshasen Igaku Sogo Kenkyusho Nenpo)
1957/a/330 p/B5/nfs/Jap/Non/B2

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date
JA	008	GOV	[illegible]	[illegible]	11 12 13 14 15	[illegible]	[illegible]	[illegible]	3 3	1968

NAME: Ministry of International Trade and Industry

Tsusho Sangyo-sho

ACRONYM: MITI

See also 009-14;235;237-8;266-7

ADDRESS:

1-3-1, Kasumigaseki
Chiyoda-ku, Tokyo

Tel: 501-1511

AFFIL:

Title	PERSONNEL	Function
	S. Ryozumi	Director, Enterprise Bureau (Kigyo Kyoku)
	T. Suzuki	Factory & Public Nuisance
	Norikaju Matsuda	Public Nuisance Control Section (operational)
	M. Nagichi	Public Nuisances Section (administrative)
	K. Kodama	

AP aims and actions: Administers Air Pollution Control Program of Ministry and of Agency for Industrial Science and Technology; Responsible for administration of extensive portions of Chapt.II of Air Pollution Law (#97-1968) and related research; Development of control technology; Industrial Land regulation and planning (Jointly with Ministry of Construction).

Comments:
Annual Report (Tsusho Sangyo-sho Nenpo)
1949/a/400p/15/nfs/Jap/Non/82,D

JA 008

Book: "Handbook of Equipment for Public Nuisance Control" (Sangyo Kogai Shori Kikiyoran)
#1500 (1965 Edition) - Compiled by Enterprise Bureau (Kigyo Kyoku)

Responsible for (1) Overall Energy Investigation Council (Sogo Energy Chosakai)
(2) Petroleum Deliberation Council (Sekiyu Shingikai)
(3) Industrial Structure Deliberation Council (Sangyo Kozo Shingikai)
(4) Industrial Land Location Deliberation Council (Kojo Riechi Chosa Shingikai)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	009	GOV	/ / C / E /	/ / / / /	11 12 13 14 15	/ / / / / /	/ / / / /	M S	/ 2 3	1969	/ /

NAME: Agency for Industrial Science and Technology
Kogyo Gijutsu-in

ACRONYM: AIST

See also JA-008; 010-016; 21

ADDRESS:
1-3-1, Kasumigaseki
Chiyoda-ku, Tokyo

Tel.:

AFFIL.: Ministry of International Trade and Industry
(Tsuho Sangyo-sho) (008)

Title	PERSONNEL	Function
Dr.	Yoshio Tomonaga	President
	Kazuo Yamamura	Research Co-ordinator in charge of Industrial Public Nuisance
	Masahiko Ogata	Senior Officer for Desulfurization Program

AP aims and actions: Sulfur Removal Process Development Program; Co-ordination and Promotion of Air Pollution Research Activities of Affiliated Laboratories and Institutes; Resources Research Institute; Government Mechanical Laboratory; Government Industrial Research Institute, Osaka; Government Chemical Industrial Research Institute, Tokyo.

Comments:
Assistants to the Research Co-ordinator in charge of Industrial Public Nuisance.
K. Niwa
Y. Hasegawa

Assistants to the Senior Officer for Desulfurization Program.
A. Takahashi
J. Chiba
S. Hashimoto

JA 009

Annual Report (Kogyo Gijutsu-in Nenpo)
1950/a/700p/B5/nfs/Jap/Non/B2

Research Programs (Kogyo Gijutsu-in Shiken Kenkyusho Kenkyu Keikaku)
/a/280p/B5/¥950/Jap/Non/B2

Industrial Science & Technology (Kogyo Gijutsu)
1960/m/75p/B5/¥220/Jap/Non/B2

JA 010 DDY 0 0 C 0 6 0 0 0 0 0 08 11 12 13 14 15 21 0 23 0 0 0 0 0 0 0 0 0 14 5 0 2 3 1969 0 0

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: Resources Research Institute

Shigen Gijutsu Kenkyusho Kogai Shigen Kenkyusho

ACRONYM:

ADDRESS:

188 Kotobuki-cho, Kawaguchi-shi
Saitama-ken, Tel.0482-52-3101
Ukima Annex 4-26-10, Ukima,
Kita-ku, Tokyo

Tel:

AFFIL: Agency for Industrial Science and Technology (Kogyo Gijutsu-in) (009)
Ministry of International Trade and Industry (Tsusho Sangyo-sho) (008)

Title	PERSONNEL	Function
Dr.	Keishin Matsumoto	Director
Dr.	Seiji Ashida	Deputy Director
Dr.	Toshi Kawana	Head, coal & carbon div.
Dr.	Takeshi Yamada	Head, Combustion Div.
Dr.	Naoomi Yamaki	Head, Air Pollution Control
Mr.	Ken-ichi Hanada	Head, Water Pollution Control Div.

AP aims and actions: Research Equipment (at Ukima Laboratory Four Wind Tunnels, 300 m.Tower) (at Main Laboratory Engine and Chassis Dynamometers)
Research Areas: Flue Gas Desulfurization using NO_2CO_3; Refining of high-octane gasoline; Manufacture of active carbon from coal for flue-gas desulfurization; Development of Catalytic Converters for four-cycle engines; Analytic method development for automotive exhaust gases; (At Ukima Laboratory) Wind Tunnel Modeling; Field Diffusion Experiments; Aerosol Measurements; Treatments of Waste Plastics.

Comments:

JA 010

Additional Personnel

Mr. Shinjiro Watari
Mr. Sanji Kadokura
Mr. Nakaji Yuki
Dr. Tsutomu Sakabe
Mr. Yoshio Kawamura
Mr. Michio Ichikawa

Mr. Masaomi Suzuki
Dr. Hisav Hattori
Mr. Tadao Shirasawa
Dr. Yoshimi Umezawi
Mr. Minoru Tanaka
Dr. Tomio Emora

Annual Report (Shigen Gijutsu Shikenjo Nenpo)
1957/a/100 p/B5/nfs/Jap/Non/B2
Reports (Shigen Gijutsu Shikenjo Hokoku)
1952/irr/115 p/B5/nfs/Jap/Non/A
Pollution Control (Kogai)
Hakua Shoba, 2-1-4, Soyokanda, Chiyoda-ku, Tokyo
1966/q/ppv/B5/¥200/Jap/Sum(Jap.Europ)/A

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date
JA	011	GOV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1969

NAME: Government Mechanical Laboratory
Kikai Shikenjo

ACRONYM:
See also JA-008 and 009

ADDRESS:
4-12, Igusa, Suginami-ku, Tokyo
Branch: 5-12-2, Fujimi-cho,
Higashimurayama-shi, Tokyo
Tel:

AFFIL: Agency of Industrial Science and Technology (Kogyo Gijutsu-in) (009)
Ministry of International Trade and Industry (Tsusho Sangyo-sho) (008)

Title	PERSONNEL	Function
Dr.	Masao Kubota	Director
Mr.	Eiichi Kikuchi	Chief, Automotive Safety and Air Pollution Control
	Shigeru Yanagihara	Chief, Exhaust Gas Section
Dr.	Joji Yamaga	Chief, Heat & Fluid Engineering Division
Mr.	Naohisa Teshirogi	Chief, Internal Combustion Engine Section

AP aims and actions:
Research Equipment: Engine and Chassis Dynamometers; Test Engines; Test track and smog chamber at Higashimurayama Branch; Engine Environmental Testing Room.
Research Areas: Emission measurement methods from automobile engines; Fuel Additives; Fuel Injection (Emphasis on two-cycle engines; Afterburners; Photochemical smog combustion.

Comments:
Annual Report (Kikai Shikenjo Nenpo)
1950/a/30 p/B5/nfs/Jap/Non/B2
Report (Kikai Shikenjo Hokoku)
1950/irr/60 p/B5/ nfs/Jap/Non/A

JA 011

Bulletin (Kikai Shikenjo Shiryo)
1955/irr/35 p/B5/nfs/Jap/Non/A
Journal (Kikai Shikenjo Shoho)
1943/bm/40 p/B5/nfs/Jap/Sum(Europ)/A
Journal
1955/Sa/Jap/B5/nfs/Europ/Non/A.C

Total Personnel:
Automotive Safety and Air Pollution Control Division -30
Exhaust Gas Section -8
Heat and Fluid Engineering Division -26
Internal Combustion Engine Section -9

JA	012	GOV	[✓] B C D E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓] [✓]	31 32 [✓] 34 35	L [✓] S	[✓] 2 3	1969	S [✓]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Electrotechnical Laboratory

Denki Shikenjo

ACRONYM:

See also JA-008 and 009

ADDRESS:

2, Nagata-cho, Chiyoda-ku,
Tokyo

Tel.:

AFFIL: Agency for Industrial Science and Technology (Kogyo Gijutsu-in)(009) Ministry of International Trade and Industry (Tsusho Sangyo-sho) (008)

Title	PERSONNEL	Function
Dr.	T. Momota	Director
	Keiji Kato	
	Shigeru Nakatani	

AP aims and actions:

Research Areas: Aerosol and Air Ion Measurement; Electrostatic Precipitation

Comments:

Research (Denki Shikenjo Kenkyu Hokoku) 1907/irr/60p/B5/nfs/Jap,Europ/Sum(Europ)/A

Bulletins (Denki Shikenjo Iho) - Omu-sha, 3-1, Kanda Nishiki-cho, Chiyoda-ku, Tokyo 1937/m/65p/B5/nfs/Jap,Europ/Sum(Europ)/A

JA	013	GOV	[✓] B C D E [✓]	01 02 03 04 05	11 12 13 [✓] 15	21 [✓] 23 [✓] 25	31 32 33 34 35	L [✓] S	[✓] 2 3	1969	S [✓]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: National Research Laboratory of Meteorology

Keiryo Kenkyusho

ACRONYM:

See also JA-008 and 009

ADDRESS:

1-10-4, Kaga, Itabashi-ku
Tokyo

Tel.:

AFFIL: Agency for Industrial Science and Technology (Kogyo Gijutsu-in)(009) Ministry of International Trade and Industry (Tsusho Sangyo-sho) (008)

Title	PERSONNEL	Function
Dr.	K. Yamamoto	Director
Dr.	Yonosuke Okamoto	
	T. Takakuva	
	N. Watanabe	

AP aims and actions:

Research Areas: Light Transmission through dusty air; Measurement of particulate matter.

Comments:

Reports (Keiryo Kenkyusho Hokoku) 1951/q/80p/B5/nfs/Jap/Sum(Europ)/A

Circulars (Deiryo Kenkyusho Chosa Hokoku) 1956/irr/130p/B5 nfs/Jap/Sum(Europ)/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	014	GOV	/ B C D E /	01 / 03 04 05	11 12 13 14 15	21 22 23 24 25	/ / 33 34 35	/ M S	/ 2 3	1969		S /

NAME: Government Industrial Development Laboratory, Hokkaido

Hokkaido Kogyo Kaihatsu Shikenjo

ACRONYM:

See also JA-008 and 009

ADDRESS:

41-2, Higashi Tsukisamu,
Sapporo-shi, Hokkaido

Tel.:

AFFIL: Agency for Industrial Science and Technology (Kogyo Gijutsu-in) (009)
Ministry of International Trade and Industry (Tsusho Sangyo-sho) (008)

Title	PERSONNEL	Function
Dr.	T. Amemiya	Director
	T. Hamada	
	Teiichi Iida	
	K. Ishipashi	
	T. Noda	
	Mitsuyuki Sasaki	
	Satoru Takemichi	
	K. Yamada	

AP aims and actions:

Research Areas: Smokeless combustion of coal and oil.

Comments:

Additional Personnel:
Dr. Y. Yoshido

Reports(Hokkaido Kogyo Kai hatsu Shikenjo Hokoku
1966/ ? /75p/B/nfs/Jap/Sum(Europ)/A

Quarterly Technical Bulletin (Hokkaido Kogyo Kaihatsu Shikenjo Gijutsu Shiryo)
1950/q/75p/B5nfs/Jap/Non/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	015	GOV	/ B C D E /	/ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 / 35	/ M S	/ 2 3	1969		S /

NAME: Government Industrial Research Institute, Osaka

Osaka Kogyo Gijutsu Shikenjo

ACRONYM:

See also JA-008 and 009

ADDRESS:

1-9-1, Kita, Oyodo-cho,
Oyodo-ku, Osaka

Tel.:

AFFIL: Agency for Industrial Science and Technology (Kogyo Gijutsu-in) (009)
Ministry of International Trade and Industry (Tsusho Sangyo-sho) (008)

Title	PERSONNEL	Function

AP aims and actions: Research Areas: Study of high porosity carbon electrodes for fuel cells; Development of catalysts for Hydrogen-Air fuel cells; Development of zinc-air battery; Development of electric automobile.

Comments:

Bulletin (Osaka Kogyo Gijutsu Shikenjo Kiho)
1950/q/45 p/B5/nfs/Jap.Europe/A

Report (Osaka Kogyo Gijutsu Shikenjo Hokoku)
1920/irr/75 p/ B5/nfs/Jap/Sum (Europe)/A

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	016	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	1969	S	T

NAME: Government Chemical Industrial Research Institute, Tokyo

Tokyo Kogyo Shikenjo

ACRONYM:

See also JA-008-010

ADDRESS:

1-1-5, Hon-machi, Shibuya-ku,
Tokyo

Tel: 03-377-5211

AFFIL: Agency of Industrial Science and Technology (Kogyo Gijutsu-in)(009)
Ministry of International Trade and Industry (Tsusho Sangyo-sho) (008)

PERSONNEL

Title	Name	Function
Dr.Agr.	N. Ota	Director
Dr. Eng.	Y. Kodera	Chief

AP aims and actions:

Research: Desulphurization of residual fuel oil and improvement of necessary catalyst in hydrogenation (Bench Scale Test).

Comments:

Reports (Tokyo Kogyo Shikenjo Hokoku) 1903/m/45 p/B5/nfs/
Jap/Sum (Europ)/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	017	GOV	✓ ✓ ✓ ✓ ✓ ✓	01 02 03 04 05	✓ 12 13 ✓ 15	✓ ✓ ✓ ✓ ✓	31 32 33 34 35	✓ M S	✓ 2 3	1969	✓ ✓

NAME: Ministry of Health and Welfare

Kosei-sho

ACRONYM: MHW

See also JA-018-023; 149;364; 327

ADDRESS:

2-2, 1 Chome, Kasumigaseki,
Chiyoda-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
	K. Muto	Head, Environmental Pollution Control Bureau
Dr.	Michio Hashimoto	Chief, Air Pollution Control Division
	Masahiro Fujiwava	
Dr.	K. Furuichi	
Dr.	Yutaka Hasegawa	Total section - 17 persons
	Saburo Kato	

AP aims and actions: Responsible for (1) Air Pollution Standards Development; (2) Cooperative research on diffusion (with Ministry of Trade & Industry) (3) Research on Health Effects of research in universities and private organizations through contracts using Public Nuisance Study Contract Budget (Kogai Chosa Kenkyu Haku Hi)

Comments:

Research Reports(Hoken Eisei Kiso Chosa Hokoku) 1963/a/220p/B5/nfs/Jap/Non/D

Administrative Reports (Eisei Gyosei Gyomu Hokoku) 1955/a/120p/B/nfs/Jap/Non/D

JA 017

Manages Environmental Pollution Control Council and Central Advisory Council for Environmental Pollution Control as required by Chapter 4 of Basic Law for Environmental Pollution Control.

General Affairs Division - Total Personnel - 12
M.S. Fujimori
Responsible for Legislation and Program.

Responsible for administration of extensive portions of Chapter II of Air Pollution Law (#97-1968); for consultation under Article 19 of the Law; and for management functions under Chapter IV of the Basic Law for Environmental Pollution Control (#132-1967); General responsibility for effects of pollution on health.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	018	GOV	A ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	~~21~~ 22 23 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	1969		/ /

NAME: Environmental Pollution Control Committee Executive Subcommittee on Ambient Air Quality Standards	ACRONYM: See also JA-017

ADDRESS:

2-2, 1 chome, Kasumigaseki
Chiyoda-ku, Tokyo

Tel.:

AFFIL.:
Living Environment Council,
Ministry of Health and Welfare
(Kosei-sho) (017)

Title	PERSONNEL	Function
Dr.	Susumu Harashima	Chairman

AP aims and actions:

Advises on Ambient Air Quality Standards

Comments:

JA 018

Chairman: Susumu Harashima, Honorary Professor Emeritus, Medical School, Keio-Gijuku University (Member of Living Environment Council)
Shun Araki, Professor, Engineering School, Metropolitan University of Tokyo
Tetsuzo Kitagawa, Professor, Engineering School, National University of Yokohama
Raisaku Kiyoura, Professor, Tokyo Inst. of Technology
Tsunetaka Kume, Chief, Forecasting Section, Meteorological Agency
Hiroyuki Sakabe, Chief, Labor Environment Department, Occupational Hygiene Institute
Takeo Suzuki, Chief, Environment Pollution & Sanitation Department, National Institute of Public Health
Shoji Tonomura, Chief, Environment Sanitation Chemistry Department, National Hygienic Laboratory
Toshio Toyama, Professor, Medical School, Keio-Gijuku University
Kazuya Horiuchi, Professor, Medical School, Medical School, Municipal University of Osaka
Saburo Yanagisawa, Professor, Engineering School, Keio-Gijuku University
Katsumi Yoshida, Professor, Medical School, Prefectural University of Mie
Hiroshi Watanabe, Chief, Environment Medicine Section, Municipal Hygienic Laboratory of Osaka

JA	019	GOV	A	✓	C	D	E	F	01	02	03	04	05	✓	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	✓	✓	2	3	1969		✓	✓
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Committee on Effect of Air Pollution of School Children

ACRONYM:

See also JA-017

ADDRESS:
2-2, 1 chome, Kasumigaseki
chiyoda-ku, Tokyo

Tel.:

AFFIL: Ministry of Health and Welfare
(Kosei-sho) (007)

Title	PERSONNEL	Function

AP aims and actions:

Advise on and direct studies related to effect of air pollution on school children.

Comments:

JA 019

A. Member nominated by the Government.
- Takeo Suzuki (Institute of Public Health)
- Shoji Tonomura (Institute of Hygienic Science)
- Toshio Toyama (Keio University, Faculty of Medicine, Prof.)

B. Member nominated by Chiba Prefecture.
- Masaji Kubo (Chiba University, Faculty of Medicine, Prof.)
- Ryo Yoshida (" " ")
- Yozo Kagaya (Public Nuisance Research, Chiba Prefecture)

C. Member nominated by Mie Prefecture
- Toshiyuki Fujino (Sangyo Igaku Kenkyu Sho = Industrial Health Research Inst. of the University of Mie Prefecture, director)
- Hidehiko Oshima (Sangy Igaku Kenkyu Sho - Assist. Prof.)
- Masayuki Imai (" - Lecturer)
- Katsumi Yoshida (The University of Mie Prefecture, Faculty of Medicine - Prof.)

JA 019

D. Member nominated by Osaka Prefecture
- Hisao Takahashi (Osaka Furitsu Seijinbyo Center = Old Man Disease Center of Osaka Prefecture)
- Tadahiko Shimizu (")
- Yasumasa Kumazawa (Public Nuisance Control Center of Osaka Prefecture)

JA	020	GOV	A ~~B~~ C D E F	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	1969
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: Special Problem Committee for Control of Air-borne Fluoride Compounds

ACRONYM:

See also JA-017

ADDRESS:
2-2, 1 chome, Kasumigaseki,
Chiyoda-ku, Tokyo

Tel:

AFFIL: Ministry of Health and Welfare
(Kosei-sho)
(017)

Title	PERSONNEL	Function

AP aims and actions:

Advises on studies on Air-borne fluoride compounds.

Comments:

JA 020

T. Okita (Manager of air pollution room, Institute of Public Health) Ministry of Health & Welfare
S. Kaji (Director, Research Institute of Public Nuisance, Chiba Prefecture)
M. Monden (Professor, Faculty of Agriculture, Nagoya University)
T. Hasegawa (Public Nuisance Control Center, Osaka Prefecture)
S. Yanagisawa (Professor, Faculty of Engineering, Keio University)
T. Fujii (Assistant Professor, Faculty of Medicine, Osaka City University)
Y. Tsuji (Professor, Medical Doctor, College of Fukushima Prefecture)
Hayamizu (Manager of food chemistry dept., National Nourishment Research Institute & Welfare)
F. Tsunoda (Assistant Professor, Medical Doctor, College of Fukushima Prefecture)

JA	021	GOV	/ / C / E /	01 02 03 04 05 /	12 13 14 15	21 / 23 24 25	31 32 33 34 35	/ M S	/ 2 3	1969	/ /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: National Institute of Public Health

Kokuritsu Koshu Eisei-in

ACRONYM:

See also JA-017-020; 022

ADDRESS:
4-6-1, Shiba Shirogane,
Dai-machi, Minato-ku,
Tokyo

Tel.:

AFFIL:
Ministry of Health and
Welfare
(Kosei-sho) (017)

Title	PERSONNEL	Function
Dr.	Takeo Suzuki	Chief, Dept. of Industrial Health & Hygiene
Dr.	Eiji Yokoyama	
Dr.	M. Hitosugi	
Dr.	Yukio Matsumura	Dept. of Community Environmental Sciences
Dr.	Hiroshi Yamamoto	
	Masao Mishima	
	I. Watanabe	
Dr.	Toshiichi Okita	

AP aims and actions: Research Areas: Sampling and analysis of pollutants and odorous compounds; Physiology and Toxicology of Pollutants; Epidemiology of Air Pollution. Chemical reactions in the atmosphere; Meteorological study of air pollution

Comments:

JA 021

Annual Report (Kokuritsu Koshu Eisei-in Nenpo)
1955/a/45 p/A5/nfs/Jap/Non/B2
Bulletin (Koshu Eisei-in Kenkyn Hokoku)
1951/q/65 p/B5/nfs/Jap.Europ/Sum (Europ)/A

Department of Architectural Hygiene and Housing
Dr. Yotaro Kobayashi, Chief
Dr. Takeshi Sekine
Susumu Yoshizawa
Research Areas: Pollution Infiltration into Buildings

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	022	GOV	~~A~~ ~~B~~ C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ ~~23~~ 24 ~~25~~	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S ~~T~~

NAME: National Institute of Hygienic Sciences
Kokuritsu Eisei Shikenjo

ACRONYM:
See also JA-018 to 021

ADDRESS:
18-1 Kamiyogu, 1 chome
Setagaya, Tokyo

Tel.:

AFFIL.:
Ministry of Health and Welfare
(kosei-sho) (017)

Title	PERSONNEL	Function
Dr.	Shoji Tonomura	Chief, Dept. of Environmental Chemistry
Dr.	Noboru Yamate	Chief, Air Pollution Sec.
	Toshio Matsumura	
	Kusuo Tsuji	

AP aims and actions:

Research Areas: Sampling and analysis of pollutants; Photochemical reactions in the atmosphere.

Comments:

Bulletin of National Institute of Hygiene Sciences
(Eisei Shikenjo Hokoku)
1886/a/160 p/B5/¥600/Jap/Sum (Europ)/A.C

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	023	GOV	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	1969	S T

NAME: National Cancer Central Research Institute
Kokuritsu Gan Senta Kenkyusho

ACRONYM:
See also JA-017

ADDRESS:
5-1-1, Tsukiji, Chuo-ku,
Tokyo

Tel.:

AFFIL.:
Ministry of Health and Welfare
(Kosei-sho)
(017)

Title	PERSONNEL	Function
	T. Hirayama	

AP aims and actions:

Comments:

Annual Report (Kokuritsu Gan Senta Nenpo)
1966/a/60p/B5/nfs/Jap/Non/B2,D

JA	024	GOV	[✓ A] [✓ B] [✓ C] [✓ D] [✓ E] [✓ F]	[✓ 01] 02 03 04 05	11 12 13 [✓ 14] 15	[✓ 21] [✓ 22] [✓ 23] [✓ 24] [✓ 25]	[✓ 31] [✓ 32] 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	[✓ [illegible]] [✓ [illegible]]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ministry of Transport

Un'Yu-sho

ACRONYM:

See also JA-025 to 030

ADDRESS:

2-1-3, Kasumigaseki
Chiyoda-ku, Tokyo

Tel.: 03-580-3111

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Responsible for automobile testing and certification, and for meteorology.

Meteorological Research Institute (Kisho Kenkyusho)
4-35-8, Koenji, Suginami-ku, Tokyo

Traffic Safety & Public Nuisance Research Institute
(Kotsu Anzen Kogai Kenkyusho) 6-38-1, Shinkawa, Mitaka-shi

Technical Notes of Institute (Un'yu Giken Shiryo)
1958/irr/ppv/B5/nfs/Jap/Non/A

Comments:

The name of Transportation Technical Research Institute disappeared in 1963, and now following 4 institutes exist:

Ship Research Institute
Harbor "
Electronic Navigation Laboratory
Traffic Safety & Public Nuisance Research Institute

JA	026	GOV	[✓ A] B C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 [✓ 24] 25	[✓ 31] [✓ 32] 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S [✓ [illegible]]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Traffic Safety & Public Nuisance Research Institute

Kotsu Anzen Ragai Kenkyusho

ACRONYM:

See also JA-024-025

ADDRESS:

6-38-1, Shinkawa, Mitaka-shi
Tokyo-to

Tel.: 0422-45-5171

AFFIL: Ministry of Transport
(Un'yu-sho)
(024)

Title	PERSONNEL	Function
Dr.	Umio Soejima	Director
Mr.	Takaake Kita	Head, Traffic Public Nuisance Div.

AP aims and actions: Research Equipment:
2 Chassis Dynamometers
2 Engine Dynamometers

Research Areas: Automotive emission control and difussion; Test Method Development; Cycle and Standards development, particularly for small cars.

Comments:

Report (Senpaku Gijutsu Kenkyusho Hokoku)
1964/bm/70p/B5/nfs/Jap/Sum (Europ)A.C

JA	025	GOV	A B [✓ C] [✓ D] [✓ E] F	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	✓ ✓
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ministry of Transport, Bureau of Road Transport

On'yu-sho Seibi Kyoku Sharyo-Ka

ACRONYM:

See also JA-024 **and** 026

ADDRESS: 2-1-3, Kasimigachi,
Chiyoda-ku,
Tokyo

Tel.:

AFFIL.:

Title	PERSONNEL	Function
	Ken Horiyama	Director, Motor Vehicle Div.
	K. Kitakawa	Deputy Director
	H. Kageyama	Chief, Air Pollution Unit
		Unit size - 5 persons

AP aims and actions:

Research Areas: Test and inspection of new and used automobiles.
Tests on CO concentration of motor vehicles.

Comments:

Responsible for Administration of Article 19 of the Air Pollution Law (#97-1968); and related research on automotive exhaust and dispersion of pollution.

JA 025

A new-car model inspection station for imported cars and low-production domestic cars will become operative in 1970, in Kitakawa-shi, Kanagawa-ken, with T. Shimizu, as Chief.

For large-production domestic cars, manufacturers will be required to test, and report to the Ministry, 10% of their production for idle CO, and one or two cars per month of each model on the standard 4 mode cycle.

Staff will be expanded to 80 persons by 1970.

JA	027	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ ~~25~~	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	/ /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Japan Meteorological Agency
Kisho-cho

ACRONYM:

See also JA - 024; 028-030; 158

ADDRESS: 1-3-4,
Ote-machi, Chiyoda-ku,
Tokyo

Tel.:

AFFIL:
Ministry of Transport
(Un'yu-sho) (024)

Title	PERSONNEL	Function
Mr.	Kenji Kubota	Chief, Applied Meteorology Section, Observation Div.
Mr.	K. Kushizaki	Total Staff 20
Mr.	A. Harada	

AP aims and actions:

Planning and Management of Meteorological Service of Air Pollution.

Memoirs of Industrial Meteorology (Sangyo Kisha Chosa Hokoku)
1927/a/70 p/B5/nfs/Jap/Sum(Europ)/A
Journal of Meteorological Research (Kish-cho Kenkyu Jiho)
1949/m/55 p/B5/nfs/Jap/Sum(Jap)/A

Technical Reports (Kisho-cho Gijutsu Hokoku)
1960/irr/200 p/B5/nfs/Jap/Sum(Europ)/A

Comments:

JA	028	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ ~~25~~	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Meteorological Research Institute
Kisho Kenkyusho

ACRONYM:

See also JA-027

ADDRESS:
4-35-8, Koenji-Kita,
Suginami-ku, Tokyo

Tel.:

AFFIL: Japan Meteorological Agency
(Kisho-cho)
Ministry of Transport
(Un'yu-sho) (024)

Title	PERSONNEL	Function
Dr.	Shin-ichi Sakurabe	Chief, Applied Meteorology Division
Dr.	Minoru Moriguchi	
	Junji Sato	
	Isao Yamaji	
Dr.	M. Ohta	Wind Tunnel Modeling
Dr.	S. Soma	Wind Tunnel Modeling

AP aims and actions:

Research Equipment: Wind Tunnel
Research Areas: Plume Rise; Diffusion; Mathematical Modeling; Wind Tunnel Modeling.

Papers (Kisho Kenkyusho Obun Hokoku)
1950/q/85p/B5/nfs/Europ/Sum(Jap, Europ)/A
Annual Report (Kisho Kenkyusho Nenpo)
1966/a/105p/B5/nfs/Jap/Non/B2
News (Kisho Kenkyusho Nyusu)
1965/m/5p/B5 /nfs/Jap/Non/B2

Comments:

JA	029	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kobe Marine Meteorological Observatory

Kobe Kaiyo Kishodai

ACRONYM:

See also JA - 027

ADDRESS:

7-21, Naka Yamate-dori,
Ikuta-ku, Kobe-shi, Hyogo-ken

Tel.:

AFFIL.: Ministry of Transport (Un'yu-sho) (024)
Japan Meteorological Agency (Kisho-cho) (027)

Title	PERSONNEL	Function
	Buntaro Yabuki	Chief

AP aims and actions:

Research Areas: SO_2 - Meteorological Relationships

Comments:

JA	030	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Osaka District Meteorological Observatory

Osaka Kanku Kishodai

ACRONYM:

See also JA-027

ADDRESS:

6-25, Hoensaka-machi, Higashi-ku,
Osaka

Tel.:

AFFIL.: Japan Meteorological Agency (Kisho-cho) (027)
Ministry of Transport (Un'yu-sho) (024)

Title	PERSONNEL	Function
	S. Matsumoto	Chief, Investigation Sect.
	T. Yamamoto	
	K. Takenchi	Chief, Forecast Sect.
	M. Nakanishi	Chief, Observations Sect.

AP aims and actions:

Research Areas: Air Pollution Climatology of Osaka

Comments:

JA	031	GOV	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 ~~12~~ ~~13~~ 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ministry of Agriculture and Forestry

Norin-sho

ACRONYM:

See also JA-032 to 037

ADDRESS:
Kasumigaseki,
Chiyoda-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
	G. Kimura	
	K. Doi	

AP aims and actions:

Coordinates research on effects of air pollution on forests, crops and silkworms.

Comments:

Annual Report (Norin-sho Nenpo)
Nihon Noson Chosakai, % Norin-sho

1948/a/460 p/B5/¥1,700/Jap/Non/B7

JA	032	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 ~~12~~ 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	/ /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Government Forest Experiment Station

Norinsho Ringyo Shikenjo

ACRONYM:

See also 033-4

ADDRESS:
5-37, Shimo Meguro
Meguro-ku, Tokyo

Tel.:

AFFIL: Ministry of Agriculture and Forestry
(Norin-Sho) (031)

Title	PERSONNEL	Function
Dr.	Osamu Chiba	Plant Pathologist, Forest Protection Div.
Mr.	Takao Inoue	Plant Physiologist, Silviculture Div.
Mr.	Yoshio Kobayashi	Botanist, Asakawa Expt. Div.
Mr.	Takashi Sato	Chemist, Forest Soil Div.
Mr.	Kiyoshi Tanaka	Plant Pathologist, Forest Protection Div.

AP aims and actions: Research Equipment: Fumigation and vinyl field exposure chambers.

Research Areas: SO_2 and other air pollutants effect on trees; Field surveys of damage.

Bulletins of Government Forest Experiment Station (Ringyo Shikenjo Kenkyu Hokoku) 1904/bm/210p/B5/nfs/Jap/Sum(Europ)/A
Annual Report (Norin-sho Ringyo Shikenjo Nenpo) 1963/a/200p/B5/nfs/Jap/Non/B1

Comments:

Summary Reports (Norin-sho Ringyo Shikenjo Kenkyu Hokoku)

1953/irr/ppr/A5/nfs/Jap/Non/B

JA	033	GOV	[✓] B C D E [✓]	01 02 03 04 05	11 [✓] 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓]	1 [✓] 3	1969	S [✓]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Government Forest Experiment Station, Hokkaido Branch

Norin-sho Kiugyo Shikenjo Hokkaido Shijo

ACRONYM:

See also JA-031;032;034

ADDRESS:

13 - chome, 5-jo, Toyohira
Sapporo-shi, Hokkaido

Tel:

AFFIL: Ministry of Agriculture and Forestry (Norin-sho) (031)

Title	PERSONNEL	Function
	Kyoji Doi	Chief, Silviculture Division

AP aims and actions:

Comments:

Annual Report (Ringyo Shikenjo Hokkaido Shijo Nenpo) 1956/a/300p/B5/nfs/Jap/Sum(Europ/A

JA	034	GOV	[✓] B C D E F	01 02 03 04 05	11 [✓] 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓]	1 [✓] 3	1969	S [✓]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Asakawa Experimental Forest

Asakawa Jikkenrin

ACRONYM:

See also JA 032

ADDRESS:

1833, Nagafusa-cho
Hachioji-shi, Tokyo-to

Tel:

AFFIL: Government Forest Experiment Station (Rinyacho Ringyo Shikenjo)(033)

Ministry of Agriculture and Forestry (Norin-sho) (031)

Title	PERSONNEL	Function
	Yoshio Kabayashi	Dendrologist

AP aims and actions:

Research Areas: Use of plants as indicators of pollution.

Comments:

JA	035	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: National Institute of Agricultural Sciences

Norin-sho Nogyo Gijutsu Kenkyusho

ACRONYM:

See also JA-031 and 032; 188

ADDRESS:

2-1-7, Nishigahara,
Kita-ku, Tokyo

Tel.:

AFFIL:

Ministry of Agriculture and
Forestry (031)
(Norin-sho)

Title	PERSONNEL	Function
Dr.	Fumio Yamazoe	Division of Fertilizers
Mr.	Hirokazu Mayumi	
Dr.	Eiichi Inoue	Division of Meteorology
Mr.	Takayuki Saito	

AP aims and actions: Research Areas: Division of fertilizers, sulfur and fluoride effects on plants. Division of meteorology - Experimental diffusion of pollutants above and within plant canopies.

Comments:

Annual Report (Nogyo Gijutsu Kenkyusho Nenpo)
1958/a/120p/B5/nfs/Jap/Non/B1,B2

Bulletins - National Institute Series - (a) Physics (b)Soils (c) Pathology (d) Physiology (f) Engineering (h) Farm Management Nogyo Gijutsu Kenkyusho Hokoku)
1952/irr/250p/nfs/Jap,Europ/Sum/A

JA	036	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S [✓ T]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Horticulture Research Station

Engei Shikenjo Hiratsuka Shijo

ACRONYM:

See also JA-031 to 035

ADDRESS:

Hiratsuka-shi
Kanagawa-Ken

Tel.: 0463-34-3175

AFFIL:

Ministry of Agriculture and
Forestry (031)
(Norin-sho)

Title	PERSONNEL	Function
	Kazuo Ichijima	Agronomist
	Yukio Nakagawa	Meteorologist
	Eiichi Yamada	Agronomist

AP aims and actions:

Research Areas: Experimental Fumigation of horticultural crops.

Comments:

Bulletin (Engei Shikenjo Hokoku, A, Hiratsuka)
1962/a/250p/B5/nfs/Jap/Sum (Europ)/A

JA	037	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 [✓ 12] [✓ 13] 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	1969	S [✓ A]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Government Silk Experiment Station

Norin-sho Sanghi Shikenjo

ACRONYM:

See also JA-031 to 036

ADDRESS:
2-104, Koenji, Suginami-ku,
Tokyo

Tel:

AFFIL:
Ministry of Agriculture
and Forestry (031)
(Norin-sho)

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Effects of Air Atmosphere Pollution on silk and silkworms.

Comments:

Bulletin (Norin-sho Sanchi Shikenjo Hokoku) 1915/irr/50p/B5/nfs/Jap/Sum (Jap,Europ)/A

JA	038	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S [✓ A]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: National Institute of Industrial Health

Rodo-sho Rodo Eisei Kenkyusho

ACRONYM:

See also JA-151

ADDRESS:
2051, Kizuki, Sumiyoshi-cho,
Kawasaki-shi, Kanagawa-ken

Tel:

AFFIL:
Ministry of Labor
(Rodo-sho)

Title	PERSONNEL	Function
Dr.	Yamaguchi	Director of Institute
Dr.	Hiroyuki Sakabe	Chief, Industrial Physiology Department
	Shigeji Koshi	Chief, Labor Environment Department

AP aims and actions:

Research Areas: Development of test methods for measuring pollutants; Odor measurement, control and effects; Automatic measurement and analysis of suspended particulate matter.

Comments:

Bulletins (Rodo Eisei Kenkyusho Kenkyu Hokoku) 1958/sa/65p/B5/nfs/Jap, Europ/Sum(Europ)/A
Annual Report (Rodo Eisei Kenkyusho Nenpo) 1957 a/20p/B/nfs/Jap/Non/B2
Industrial Health 1963/q/70p/B5/nfs/Europ/Sum(Europ)/A

JA	039	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	~~11~~ 12 ~~13~~ 14 ~~15~~	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Building Research Institute

Kenchiku Kenkyusho

ACRONYM:

See also JA-150

ADDRESS:
4-394, Hyakunin-cho,
Shinjuku-ku, Tokyo

Tel.:

AFFIL:

Ministry of Construction
(Kensetsu-sho)

Title	PERSONNEL	Function
	K. Konno	
	S. Iwabuchi	

AP aims and actions:

Research Areas: Air filtration; Odor Adsorption using activated carbon.

Ministry is responsible for city planning and land use regulation.

Comments:

Report (Kenchiku Kenkyu Hokoku) 1949/irr/100p/B5/nfs/Jap/Sum (Europ)/A

JA	040	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	~~S~~ T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Physical and Chemical Research

Rikagaku Kenkyusho

ACRONYM:

See also

ADDRESS:
Main Address: 31. Komagome Kamifujimae-cho, Bunkyo-ku, Tokyo
Lab: 4775, Shimo Shikura, Dawai-cho,
Kita Adachi-gun, Saitama-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Yasushi Sawahata	Director
	Kazuo Shimizu	

AP aims and actions:

Research Areas: Stable Voltage Supplies for Monitoring Instruments.

Comments:

Reports (Rikagaku Kenkyusho Hokoku) 1922/bm/30p/B5/¥200/Jap/Sum(Jap)/A

Annual Report (Rikagaku Kenkyusho Kenkyu Nenpo) 1964/a/85 p/B5/nfs/Jap/Non/B2

Scientific Papers 1922/q/40p/B5/¥200/Europ/Sum (Europ)/A.C

JA	041	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Japan Atomic Energy Research Institute

Nihon Genshiryoku Kenkyusho

ACRONYM:

See also JA-007; 041, 113,170

ADDRESS: Main Office
1-1-13, Shimbashi, Minato-ku,
Tokyo
Laboratory: Tokai-mura, Naka-gun,
Ibaniki-ken
Tel.:

AFFIL:

Title	PERSONNEL	Function
	Kazuhiko Imai Michio Kakuta Tadaaki Owata	

AP aims and actions:

Research Areas: Atmospheric Stability Category Analysis

Comments:
Journal (Genken)
1960/bm/21p/B5/nfs/Jap/Non/B2
JAERI Research Reports (JAERI Kenkyu Hokoku)
1959/irr/50p/B5/pv/Jap.Europ/Sum (Jap, Europ)/A

JA	042	GOV	A B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Aichi Prefectural Institute of Public Health

Aichi-ken Eisei Kenkyusho

282-285

See also JA-088;121;133;

ADDRESS:
81-1, Kanokoden, Tashiro-cho,
chikusa-ku, Nagoya-shi,
Aichi-ken
Tel.:

AFFIL: Aichi prefectural Office

Title	PERSONNEL	Function
Total	51	
	Hayashi K. Koike	

AP aims and actions:

Comments:
Report (Aichi-Ken Eisei Kenkyusho-ho) 1949/a/60p/B5/nfs/Jap/Sum(Europ)/A

JA	043	GOV	A B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Akita Prefectural Institute of Public Health
Akita-ken Eisei Kagakuken Kyusho

ACRONYM:

See also

ADDRESS:
1-40, Senshumeitoku-cho
Akita-shi, Akita-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
Total	30	
Mr.	E. Kodama	Director

AP aims and actions:

Research pertaining to air pollution and odor pollution.

Comments:

Report (Akita-ken Eisei Kagaku Kenkyusho-ho)
1955/a/100p/25.5 X18.3 cm/nfs/
Jap/Sum (Jap)/D

JA	044	GOV	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Aomori Prefectural Institute of Public Health
Aomori - Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
25-1, Aza Sawada,
Oaza Tsukurimichi
Aomori-shi, Aomori-ken

Tel.:

AFFIL:
Aomori Prefectural Office

Title	PERSONNEL	Function
	Total 21	

AP aims and actions:

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	045	GOV	A B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969		S T

NAME: Public Health Laboratory, Chiba Prefecture
Chiba-ken Eisei Kenkyusho

089, 098, 245, 246, 104
See also

ADDRESS:
204, Shimmei-cho,
Chiba-shi, Chiba-ken
Tel.:

AFFIL: The Public Health Laboratory of The Department of Health Chiba Prefectural Government as a separate entity like the Lab. of Public Hazard.

Title	PERSONNEL	Function
Dr.	Masato Miyairi	Director
Total	28	

AP aims and actions:

1) Survey and research work on various public health problems applying to bacteriological, viral, biological, physical and chemical techniques.

2) Routine examination on various specimens, food, drug, water, sewage, etc.

3) Training of laboratory technicians in Chiba Prefecture.

Comments:

Annual Report (Chiba-ken Eisei Kenkyusho Nenpo)
The laboratory work on air pollution has been transferred to the Kogai Kenkyusho, Ichihara City since August, 1968. The Laboratory work on water pollution remains in this lab.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	046	GOV	A B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T

NAME: Ehime Prefectural Institute of Public Health
Ehime-Kenritsu Eisei Kenkyusho

ACRONYM:
See also

ADDRESS:
10, Horinouchi-cho,
Matsuyama-shi,
Ehime-ken
Tel.:

AFFIL: Ehime Prefectural Office

Title	PERSONNEL	Function
	Total 29	

AP aims and actions:

Comments:

Research Report (Report of Ehime Prefectural Institute of Public Health)

JA	047	GOV	A B C / E /	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Fukui Prefectural Institute of Public Health

Fukui-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:

1-29-1, Bunkyo, Machiya-cho,
Fukui-shi, Fukui-ken

Tel.:

AFFIL: Fukui Prefectural Office

Title	PERSONNEL	Function
	Total 29	

AP aims and actions:

Comments:

Summary Report of Technical Research
(Fukui-ken Eisei Kenkyusho
Gyoseki Shoroku)
1956/irr/30p/B5/nfs/Jap/Non/C

JA	048	GOV	/ B C / E /	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Fukuoka Prefectural Institute of Public Health

Fukuoka-Ken Eisei Kenkyusho

ACRONYM:

See also JA-117; 267;275-277

ADDRESS:

1-5-3, Tenjin,
Fukuoka-shi, Fukuoka-ken

Tel.:

AFFIL: Fukuoka Prefectural Office

Title	PERSONNEL	Function
	Ryugo Ishibashi Hisashi Ota	
	Total 42	

AP aims and actions:

Research Areas: Determination of sulfate in lead peroxide candles.

Comments:

Annual Report (Fukuoka-Ken Eisei
Kenkyusho-ho)
1951/a/60p/B5/nfs/Jap/Non/B2

Reports (Fukuoka-Ken Eisei
Kenkyusho Hokoku)
1962/irr/45p/B5/nfs/Jap,Europ/
Sum(Europ)/A,D

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	049	GOV	A B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T

NAME: Fukushima Institute of Health

Fukushima-ken Eisei Kenkyusho

ACRONYM:

See also JA-105; 248

ADDRESS:

2-38, Oyamacho
Fukushima-shi, Fukushima-ken

Tel.: 0245-34-4103

AFFIL:

Title	PERSONNEL	Function
Total	46	
	K. Kuwakumi	

AP aims and actions:

Comments:

Reports (Fukushima-ken Eisei Kenkyusho Kenkyu Hokoku)
1953/bm/20p/B5/nfs/Jap/Non/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	050	GOV	~~A~~ B C ~~D~~ E F	~~01~~ 02 03 04 05	11 ~~12~~ ~~13~~ 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	S T

NAME: Gifu Prefectural Institute of Public Nuisance Health

Gifu-ken Eisei Kenkyusho

250;135

See also JA-108; 128;143;249;

ADDRESS:

Toyomae-Noishiki-Nagamori
Gifu-shi, Gifu-ken

Tel.:

AFFIL: Gifu Prefectural Office

Title	PERSONNEL	Function
	Tomokuni Hayakawa	
	Kunimasa Hirooka	
	Hiromasa Inoue	
	Kunio Kato	
	Yuki Morishita	

AP aims and actions:

Research Areas: Fluoride Measurement by impregnated paper; Automotive pollution in vehicular tunnel; Relation of fluoride pollution to silkworm breeding.

Comments:

JA	051	GOV	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Gumma Prefectural Institute of Public Health

Gumma-ken Eisei Kenkyusho

ACRONYM:

See also JA-251

ADDRESS: 3-21-19 Iwagami-cho
Maebashi-shi, Gumma-ken

Tel.: 0272-32-4881

AFFIL: Gumma Prefectural
Health Department

Title	PERSONNEL	Function
Total	29	Public Health

AP aims and actions:
Affords public health services in biomedical diagnostic examinations, food and drug analysis and other matters pertaining to environmental health.

Comments:

JA	052	GOV	A B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Hiroshima Prefectural Institute of Public Health

Hiroshima-ken Eisei Kenkyusho

ACRONYM:

See also JA-252

ADDRESS:
11-12, Fujimi-cho,
Hiroshima-shi, Hiroshima-ken

Tel.:

AFFIL:
Hiroshima Prefectural Office

Title	PERSONNEL	Function
	Total 27	

AP aims and actions:

Comments:

Annual Report (Hiroshima-ken
Eisei Kenkyusho-ho)
1951/a/150p/? /nfs/Jap/Non/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	053	GOV	✓ B C ✓ E ✓	✓ 02 03 04 05	✓ 12 13 14 15	21 ✓ 23 24 25	31 32 33 34 35	✓ M S	✓ 2 3	1969		S T

NAME: Hokkaido Prefectural Institute of Environmental Pollution

Hokkaido Rogai Boshi Kenkyusho

JA-090; 115; 120; 123

See also 124; 129; 138; 254-258

ADDRESS:

Nishi-15-chome, Minami-2-jo
Sapporo-shi, Hokkaido

Tel.: (0122) 61-0291

AFFIL:

Hokkaido Prefectural Office

Title	PERSONNEL	Function
	Ryosaku Endo	
	Tetsutaro Kohgo	
	Tatsunori Oyake	
	Naoki Sugawara	

AP aims and actions:

Research Areas: SO_2 Measurement Methods; Automobile Exhaust; Odor; Effect of Air Pollution on Health; Field Studies.

Comments:

Report (Hokkaidoritsu Eisei Kenkyusho-ho)
1951/a/150p/B5/nfs/Jap/Sum(Europ)/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	054	GOV	A B C ✓ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ✓	1 2 ✓	1969		S T

NAME: Public Health Institute of Hyogo Prefecture Division of Environmental Health

Hyogo-Ken Eisei Kenkyusho

ACRONYM:

See also JA-099;114;118;131;134

ADDRESS:

2-1, Arata-cho, Hyogo-ku,
Kobe City, Hyogo-ken

Tel.:

AFFIL:

Hyogo Prefectural Office

Title	PERSONNEL	Function
Dr.	H. Watanabe	Director
	Hichiro Nanjo	
	Masao Oji	
	Kozo Shintani	
	Kuzuo Ono	

AP aims and actions:

Health Effects of air pollution:

1. Statistical Study
2. Pulmonary Function
3. Biochemical Study
4. Pathological Study

Comments:

JA	055	GOV	A B C / E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ibaraki Prefectural Institute for Public Health

Ibaraki-ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
4-1 Atago-cho,
Mito-shi, Ibaraki-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
Total	31	
M.D.	Isao Saito	Director
M.D.	Masao Sakaki	Chief Administration
M.D.	Masaki Makino	Chief Microbioligical Sect.
	Kaora Katsumata	Chief Chemical Section
	Motoo Toyota	" Food "
	Kyoji Koike	Radio Activity Survey

AP aims and actions:

Research and Investigation on Public Health in Ibaraki Prefecture. Problems of air pollution handled by chemical section. Research on air pollution is divided into (1) AP research and investigation and (2) cooperation with monitoring and surveys in air pollution.

Comments:

JA	056	GOV	A B C / E /	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ishikawa Prefectural Institute of Public Health

Ishikawa-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
2-15-16, Hosai
Kanazawa-shi, Ishikawa-ken

Tel.:

AFFIL:
Ishikawa Prefectural Office

Title	PERSONNEL	Function
	Total 21	

AP aims and actions:

Comments:

Annual Report (Ishikawa-Ken Eisei Kenkyusho Nenpo) 1965/a/?/B5/nfs/Jap/Non/B2

JA	057	GOV	[✓ A] B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Iwate Institute of Public Health
Iwate-ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
15-25 Uchimaru
Morioka-shi, Iwate-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Tetsuo Kudo	
	Aikira Sato	
	Kiyohiko Tairabune	
	Masanao Takahashi	

AP aims and actions:

Research Areas: Analysis of Trace Metals in Particulate Matter.

Comments:

Annual Report (Iwate-ken Eisei Kenkyusho Nenpo)
1951/a/100p/B5/nfs/Jap/Non/B2

JA	058	GOV	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kagawa Prefectural Institute of Public Health
Kagawa-Ken Eisei Kenkyusho

ACRONYM:

See also JA-259

ADDRESS:
Miyawaki-cho
Takamatsu-shi, Kagawa-ken

Tel.:

AFFIL:
Kagawa Prefectural Office

Title	PERSONNEL	Function

AP aims and actions:

Comments:

JA	061	GOV	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kochi Prefectural Institute of Public Health
Kochi-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
5, Marunouchi,
Kochi-shi, Kochi-ken

Tel.:

AFFIL:
Kochi Prefectural Office

Title	PERSONNEL	Function
	Total 27	

AP aims and actions:

Medical Research and examination for the public health.

Comments:

JA	062	GOV	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kumamoto Prefectural Institute of Public Health
Kumamoto-ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
4-33, Minami Sendabata Machi
Kumamoto-shi
Kumamoto-ken

Tel.: 52-3008

AFFIL:
Kumamoto Prefactural Office

Title	PERSONNEL	Function
Mr.	Torao Ikebe	Dean, Faculty of Science
	T. Nishi	Tetorihon cho-1-1- Kumamoto City

AP aims and actions:

Air Pollution, noise and tremor, etc.
Air Pollution, chemical analysis of pacticulate,
SO_2, NO_x and CO, etc.

Comments:

JA	059	GOV	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kagoshima Prefectural Institute of Public Health
Kagoshima-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
1-24, Shiroyama-cho,
Kagoshima-shi, Kagoshima-ken

Tel.:

AFFIL.:
Kagoshima Prefectural Office

Title	PERSONNEL	Function
	Total 21	

AP aims and actions:

Comments:

JA	060	GOV	[✓ A] B C [✓ D] E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kanagawa Prefectural Institute of Public Health
Kanagawa-Ken Eisei Kenkyusho

ACRONYM:

See also (Kanagawa-ken)

ADDRESS:
52-2, Nakao-cho, Asahi-ku
Yokohama-shi, Kanagawa-ken

Tel.: Yokohama 045-391-5761

AFFIL.:
Japan Society of Air Pollution

Title	PERSONNEL	Function
Dr.	Takeo Takahashi	Director
	Shozo Fukui	
	Shoji Naito	
	Mikihiro Kaneko	
	Junzo Matsuzaki	
	Setsuko Setsuda	

AP aims and actions:

Research Areas: Air Quality Measurement Methods; Field Studies of Automotive Pollution; Effects of fluorides and nitrogen oxides. Removal methods of injurious gases in stack gas.

Comments:

Annual Report (Kanagawa-ken Eisei Kenkyusho Nenpo)
1953/a/95p/A5/nfs/Jap/Non/B2

JA	063	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kyoto Prefectural Institute of Public Health

Kyoto-Fu Eisei Kenkyusho

ACRONYM:

See also 268, 274
JA-119; 132; 142

ADDRESS:

563, Umebayashi-cho, Gojo Agaru,
Higashiohji, Higashiyama-ku,
Kyoto-shi, Kyoto-Fu
Tel.: 075-561-8101

AFFIL: Kyoto Prefectural Office

Title	PERSONNEL	Function
	Masukichiro Asami	Chief
	Shinobu Esaka	Chief Officer
	Koichiro Kitazawa	Engineer
	Sachiko Ichitani	"
Total	28	

AP aims and actions: Research Areas: Automatic Recorder for SO_2 and Airborne dust measurement of meteorological data. Use of Lead Peroxide Candles for SO_2 Measurement. Several inspections for Air Pollution Sources.

Comments:

JA	064	GOV	A B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Mie Prefectural Institute of Public Health

Mie-Ken Eisei Kenkyusho

ACRONYM:

See also 279-281
JA-101; 244

ADDRESS:

1-172, Sakae-machi
Tsu-shi, Mie-ken
Tel.: 8-2268

AFFIL:

Title	PERSONNEL	Function
Total	21	

AP aims and actions:

Gaschiomatic Analysis of organic pollutants in Yobleaichi Urban Air

Comments:

Annual Report (Mie-ken Eisei Kenkyusho Nenpo)

(1963-1964)

JA	065	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Miyagi Prefectural Institute of Public Health
Miyagi-Ken Eisei Kenkyusho

ACRONYM:

See also JA-092; 126; 299

ADDRESS:

15-25 Hacheman - 2 - chome
Sendai-shi, Miyagi-ken

Tel.:

AFFIL:

Miyagi Prefectural Office

Title	PERSONNEL	Function
	Hiroshi Funaki Tadashi Kikuchi Tsutomo Koriyawa Shinsaku Sato	

AP aims and actions:

Research Areas: Odors from Pulp Mills and Fish Processing; Automobile exhaust pollution.

Comments:

Annual Report (Miyagi-Ken Eisei Kenkyusho Hokoku)
1948/a/150p/B5/nfs/Jap/Non/A,B2

JA	066	GOV	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Miyazaki Prefectural Institute of Public Health
Miyazaki-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:

3-120, Takachihodori,
Miyazaki-shi, Miyazaki-ken

Tel.:

AFFIL:

Miyozaki Prefectural Office

Title	PERSONNEL	Function
	Total 18	

AP aims and actions:

Comments:

JA	067	GOV	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Nara Prefectural Institute of Public Health

Nara-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:

200-1, Nishi Kitsuji
Nara-shi,
Hachiken machi
Nara-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Total 16	

AP aims and actions:

Comments:

JA	068	GOV	A B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Nagasaki Prefectural Institute of Public Health

Nagasaki-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:

32-31, Nameishi-machi
Nagasaki-shi, Nagasaki-ken

Tel.:

AFFIL:

Nagasaki Prefectural Office

Title	PERSONNEL	Function
	Total 23	

AP aims and actions:

Comments:

Report (Nagasaki- Ken Eisei Kenkyusho-ho)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	S	T
JA	069	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S	T

NAME: Nagano Prefectural Institute of Public Health

Nagano-ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:

1978, Komemura Amon
Nagano-shi, Nagano-ken

Tel.: (Nagano) 0262-27-0354

AFFIL:

Title	PERSONNEL	Function
Total	23	
	Hidemi Kurita	

AP aims and actions:

Research Areas: Relation between dustfall and Precipitation.
Daily Variation of Pollution.

Comments:

Bulletin (Nagano-ken Eisei Kenkyusho Chosa Kenkyn Hokoku)
1956/irr/10p/B5/nfs/Jap/Non/A.D

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	S	T
JA	070	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S	T

NAME: Niigata Prefectural Institute of Public Health

Niigata-Ken Eisei Kenkyusho

ACRONYM:

See also JA-093; 144

ADDRESS:

1-2-1, Kawabata-cho,
Niigata-shi, Niigata-ken

Tel.:

AFFIL:

Niigata Prefectural Office

Title	PERSONNEL	Function
	K. Kaneda E. Nishino I. Shinokawa	

AP aims and actions:

Research Areas: Odor Measurement; Na_2SO_4 emission.

Comments:

Report (Niigata-Ken Eisei Kenkyusho Gyoseki Hokoku)
1950/5 nospa/20p/B5/nfs/Jap/Sum (Jap)A

JA	071	GOV	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Oita Prefectural Institute of Public Health
Oita-Ken Eisei Kenkyusho

ACRONYM:

See also JA-136; 242

ADDRESS:

2-6, Kotobuki
Oita-shi, Oita-ken

Tel.:

AFFIL:

Oita Prefectural Office

Title	PERSONNEL	Function
	N. Goko	
	H. Ikebe	
	N. Mizoguchi	
	K. Suemitsu	
	S. Suzuki	

AP aims and actions:

Research Areas: Pollution in Oita City

Comments:

JA	072	GOV	[✓ A] B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Okayama Prefectural Institute of Public Health
Okayama-Ken Eisei Kenkyusho

ACRONYM:

See also JA-094;107;289

ADDRESS:

3-30, Izumi-cho, Tsushima,
Okayama-shi, Okayama-ken

Tel.:

AFFIL:

Okayama Prefectural Office

Title	PERSONNEL	Function
	Norikatsu Hamamura	
	Hirokatsu Okada	
	Yoichi Takaya	
	Fumichi Shigeta	

AP aims and actions:

Research Areas: Pollution in Mizushima; Sampling and analysis of amines.

Comments:

Annual Report (Okayama-Ken Eisei Kenkyusho Nenpo)
1950/a/115p/B5/nfs/Jap/Sum(Europ)/A

JA	073	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Osaka Prefectural Institute of Public Health

Osaka-furitsu Koshu Eisei Kenkyusho

ACRONYM:

See also (Osaka-shi)

ADDRESS:
1, Minami, Mori-machi,
Higashinari-ku,
Osaka-shi

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Hideo Furuno	Dir. of Institute
Dr.	Akira Oshino	Chief of Section
	Fujihiko Go	
	Miyoko Hayashi	
	Satoru Hayashi	
	Takeo Miura	
	Keisuke Taguchi	

AP aims and actions:

Research Areas: SO_2 and Odor Measurement; Analysis of trace metals in the atmosphere; Emissions from plastic processing.

Proceedings, Air and Water Pollution Edition (Osaka-furitsu Koshu Eisei Kenkyusho Kenkyu Hokoku, Kogai-hen) 1964/a/55p/B5/nfs/Jap/non/A

Bulletin (Osaka-furitsa Koshu Eisei Kenkyusho Koshu Eisei bu Hokoku) 1956/irr/75p/B5/nfs/Jap/Sum(Europ)/A

Comments:

JA 073

NAME: Osaka Prefectural Institute of Public Health

AFFIL:

Industrial Health Department
Osaka Prefectural Office

AP aims and actions:

Research Areas: Effect of NO_2 on rodents.

Comments:

Proceedings, Industrial Health Edition (Osaka-furitsu Koshu Eisei Kenkyusho Kenkyu Hokoku, Rodo Eisei-hen)

1964/a/45p/B/nfs/Jap/Sum(Jap)/A

PERSONNEL

Shigeto Kusamoto
Yoshiko Matsuo
Taichi Nakajima

JA	074	GOV	A B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Saga Prefectural Institute of Public Health
Saga-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
1-12-13, Mizugaecho
Saga-shi, Saga-ken

Tel.:

AFFIL:
Saga Prefectural Office

Title	PERSONNEL	Function
	Total 15	
	Y. Iwamoto	

AP aims and actions:

Comments:

Report (Saga-Ken Eisei Kenkyusho-ho)
1954/a/60p/B5nfs/Jap/Sum(Jap)/A,D

JA	075	GOV	~~A~~ B C ~~D~~ E F	01 02 03 ~~04~~ 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Saitama Prefectural Institute of Public Health
Saitama-Ken Eisei Kenkyusho

ACRONYM:

See also JA-096; 109

ADDRESS:
1-124, Nishiki-cho,
Omiya-shi, Saitama-ken

Tel.:

AFFIL:
Saitama Prefectural Office

Title	PERSONNEL	Function
	Zenichi Kawase	
	Hiraku Kitano	
	Shigehiro Ozu	

AP aims and actions:

Research Areas: Air Pollution Damage from Roof Tile Manufacture.

Comments:

JA	076	GOV	A B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Shiga Prefectural Institute of Public Health
Shiga-Kenritsu Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
13-45, Coten hama,
Ohtsu-shi, Shiga-ken

Tel.:

AFFIL:
Shiga Prefectural Office

Title	PERSONNEL	Function
	Total 17	

AP aims and actions:

Comments:
Report (Shiga-Kenritsu Eisei Kenkyusho-ho) 1954/ba/60p/B5/nfs/Jap/Non/A.C

JA	077	GOV	A B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Shimane Prefectural Institute of Public Health
Shimane-ken Eisei, Kenkyusho

ACRONYM:

See also

ADDRESS:
420 Dairin-cho
Matsue-shi, Shimane-ken

Tel.: Tel. 0852-23-1313

AFFIL:
Shimane Prefectural Office

Title	PERSONNEL	Function
Total	15	

AP aims and actions:
Annual Report (Shimane-ken Eisei Kenkyusho Nenpo) 1958/a/50p/B5/nfs/Jap/Non/B2
Research Reports (Shimane-ken Eisei Kenkyusho Gyoseki Hokoku) ?/a/ppv/B5/nfs/Jap/Non/B1

Comments:

JA	078	GOV	[✓] B C [✓] E [✓]	01 02 03 04 05	11 12 13 14 15	21 [✓] 23 24 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Shizuoka Public Health Laboratory

Shizuoka-Ken Eisei Kenkyusho

ACRONYM:

See also JA-297

ADDRESS:

3-68, Takajo-machi
Shizuoka-shi, Shizuoka-ken

Tel.:

AFFIL:

Shizuoka Prefectural Office

Title	PERSONNEL	Function
	Noboru Suzuki	
	Morio Ito	
	Yoshio Nakai	
	Takeshi Nagai	
	Takao Nagano	
	Takao Sano	

AP aims and actions:

Research Areas: Survey of Fuji City (Yoshiwara District)

Comments:

Annual Report (Shizuoka-Ken Eisei Kenkyusho Nenpo) 1950/a/140p/B5/nfs/Jap/Non/A.D

JA	079	GOV	A B C [✓] E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tochigi Prefectural Institute of Public Health

Tochigi-ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:

47-927-2 Miyahara
Utsunomiya-shi
Tochigi-ken

Tel.:

AFFIL:

Tochigi Prefectural Office

Title	PERSONNEL	Function
Total	19	

AP aims and actions:

Comments:

Report (Tochigi-ken Eisei Kenkyusho Gyoseki Hokoku)

1961/irr/15p/B5/nfs/Jap/Non/D

JA	080	GOV	[✓ A] B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Tokushima Prefectural Institute of Public Health

Tokushima-ken Eisei Kenkyusho

ACRONYM:

See also JA-097; 300

ADDRESS:

3, Shinkura-cho,
Tokushima-shi, Tokushima-ken
Japan
Tel.: 0886-22-7309 (or 0886-22-7310)

AFFIL: Public Nuisance Dept. of Tokushima Pref. Gov.

Title	PERSONNEL	Function
	Cho Matsuoka	Sect. of Physics, Chemistry and Public Nuisance
	Toshio Kitamura	
	Isao Tahara	
Dr.	Heiichiro Kondo	Chief of Public Nuisance Dept. of Tokushima Pref. Gov.

AP aims and actions:

Research Areas: H_2S from Viscose Rayon Manufacture and other Air Pollution Problems

Comments:

Annual Report (Tokushima-ken Eisei Kenkyusho Nempo) 1953/a/150 p/B5/nfs/Jap/Non/AD

JA 080

Recent Reports

		(Annual Report No.)		
1.	Measurement of the Atomospheric Concentration of Hydrogen sulfide in the Vicinity of Viscose Rayon Factories		No.8	196P
2.	A Study on the Measurement of flying dust ($Na_2Cr_2O_7$ powder) from a Chromate Factory		No.P	1P70
3.	Preliminary Survey of the Air Pollution in Tokushima Pref. (mainly SO_2 Measurement Data)	Part I	No.6	1967
		Part II Part III	No.7	1968
	Part I - Part VII	Part IV Part V	No.8	1969
		Part VI Part VII	No.9	1970

JA	081	GOV	[✓ A] B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokyo-to, Laboratories for Medical Sciences

Tokyo-toritsu Eisei Kenkyusho

ACRONYM:

See also (Tokyo)

ADDRESS:

4-539, Hyakunin-cho,
Shinjuku-ku,
Tokyo

Tel.: 363-3231

AFFIL:

Title	PERSONNEL	Function
	Masatake Kobayashi Kiyoshi Morozumi Yasuhito Sato Hiroshi Yagyu Soji Yamazaki	

AP aims and actions:

Research Areas: Dustfall in Tokyo

Comments:

Annual Report (Tokyo-toritsu Eisei Kenkyusho Nenpo) 1950/a/140p/B5/nfs/Jap, Europ/Non/B

Reports (Tokyo-toritsu Eisei Kenkyusho Kenkyn Hokoku) 1951/irr/20p/B5/nfs/Jap/Sum(Europ)/A

JA	082	GOV	A B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tottori Prefectural Institute of Public Health

Tottori-Ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
472, Matsunami - 2 chome
271-1, Yoshi Kata
Tottori-shi, Tottori-ken

Tel.: (0857) 23-0051

AFFIL: Tottori Prefectural Office

Title	PERSONNEL	Function
	Total 18	

AP aims and actions:

Investigations of Public Health - Environmental Pollution

Comments:

Bulletin (Tottori-Ken Eisei Kenkyusho-ho)
1961/a/40p/B5/nfs/Jap/Non/B2

Report (Tottori-ken Eisei Kenkyusho Chosaken Kyu Hohoku)

JA	083	GOV	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Toyama Prefectural Institute of Hygiene

Toyama-ken Eisei Kenkyusho

ACRONYM:

See also JA-312

ADDRESS:

1-15, Ohte-machi
Toyama-shi, Toyama-ken

Tel:

AFFIL: Toyama Prefectural Office
1-7 Shinsogawa
Toyama-shi

Title	PERSONNEL	Function
Mr.	Masami Arai	
Mr.	Isao Miyamoto	
Mrs.	Harumi Vishino	
Mr.	Samon Maeda	
Mr.	Gunji Kawasaki	Director
Mr.	Itsuro Senda	
	Total 36	

AP aims and actions:

Research Areas: Analysis of sulfates, nitrates and heavy metals in particulate matter; Field Surveys

Comments:

JA	084	GOV	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Wakayama Prefectural Institute of Public Health

Wakayama-ken Eisei Kenkyusho

ACRONYM:

See also JA-140

ADDRESS:

271 Higashi-nu-tsubo, Minato
1, Kachi-machi,
Wakayama-shi, Wakayama-ken

Tel: Wakayama (23) 9570

AFFIL:
Wakayama Prefectural Office

Title	PERSONNEL	Function
Dr.	Michinori Hori	Director
	Yasutaka Hashimoto	Chief

AP aims and actions:

Research Areas: Measurement methods for atmospheric particulate matter; Field surveys

Comments:

JA	085	GOV	A	B	C	~~D~~	E	~~F~~	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	~~N~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Yamagata Prefectural Institute of Public Health
Yamagata-ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
7-17, Sakura-machi
Yamagata-shi, Yamagata-ken

Tel.:

AFFIL:
Yamagata Prefectural Office

Title	PERSONNEL	Function
	Total 44	

AP aims and actions:

Comments:
Annual Report (Yamagata-Ken Eisei Kenkyusho-ho)
1956/a/120p/B5/nfs/Jap/Non/A.C.D

JA	086	GOV	~~A~~	B	C	~~D~~	E	~~F~~	01	02	03	04	05	11	12	13	14	15	21	22	~~23~~	24	25	31	32	33	34	35	L	M	~~N~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Yamaguchi Prefectural Institute of Public Health
Yamaguchi-ken Eisei Kenkyusho

ACRONYM:

See also JA 314-316

ADDRESS:
1812 Itsuki Shima, Kami-unorei
Yamaguchi-shi, Yamaguchi-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	H. Miyoshi	
	Y. Nishijima	
	S. Tanaka	
Total	30	

AP aims and actions:

Research Areas: Emission Control Methods

Comments:
Annual Report (Yamaguchi-ken Eisei Kenkynsho Nenpo)
1959/a/75p/B5/nfs/Jap/Non/B2

JA	087	GOV	[✓] B C [✓] E F	[✓] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Yamanashi Prefectural Institute of Public Health

Yamanashi-ken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:
1-11-42, Chuo, Kofu-shi,
Yamanashi-ken

Tel.: (0552) 37-1384

AFFIL:
Japanese Society of Public Health
Yamanashi Prefectural Office

Title	PERSONNEL	Function
	Hideo Amino	Chief Engineer
	Kazuhira Kasai	Engineer
	Akira Nakayama	Engineer
	Total 28	

AP aims and actions:

Research Areas: Automobile exhaust in a vehicular tunnel.

Comments:

Annual Report of Yamanashi Prefectural Institute of Public Health No.11, 1968; No.12, 1969.

JA	088	GOV	A B C D [✓] [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Aichi Prefectural Public Health Department

Aichi-Ken Eisei-bu

See also JA-042;121;133;282-285

ADDRESS:
3-1-2, Sannomaru, Naka-ku,
Nagoya-shi, Aichi-ken

Tel.:

AFFIL:
Public Nuisance Section
Aichi Prefectural Office

Title	PERSONNEL	Function
	Hirokazu Kitano	Manager
	T. Murihira	

AP aims and actions:

Comments:

Report on Air Pollution (Taiki Osen Chosa Hokoku)

JA	089	GOV	A B C D ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Chiba Prefectural Public Health Department
Chiba-Ken Eisei-bu

JA 045; 098; 104;
See also 245; 246

ADDRESS:
Chiba Prefectural Office

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Akira Abe	Chief, Air Pollution Control Section

AP aims and actions:

Comments:

JA	090	GOV	~~A~~ B C D ~~E~~ ~~F~~	~~01~~ 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Hokkaido Prefectural Public Health Department
Hokkaido-cho Eisei - bu

ACRONYM:
See also (Hokkaido)

ADDRESS:
6 chome, Kita Sanjo Nishi
Sapporo-shi, Hokkaido

Tel.:

AFFIL:
Hokkaido Government

Title	PERSONNEL	Function
	Hiroshi Shirakawa	

AP aims and actions:

Research Areas: Odors; Automobile exhaust; Effects of Air Pollution on Health

Comments:

Report on Air Pollution (Hokkaido Taiki Osen Chosa Sokutei Kekka Hokoku)

JA	091	GOV	A B C D / /	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L / S	1 / 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kanagawa Prefectural Public Health Department
Kanagawa-Ken Eisei-bu

ACRONYM:

See also Kanagawa-Ken

ADDRESS:
1-1, Nihon-odori, Naka-ku,
Yokohama-shi, Kanagawa-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Y. Sugawa	Manager

AP aims and actions:

Comments:
Bulletin of Public Health Association of Kanagawa Prefecture (Kanagawa-Ken Koshu Eisei Gakkai-shi)
1953/a/50p/B5/nfs/Jap/Non/A.B1

JA	092	GOV	/ B C D / F	01 02 / 04 05	11 12 13 14 15	21 / 23 24 25	31 32 33 34 35	L M /	1 2 /	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Miyagi Prefectural Public Health Department
Miyagi-Ken Eisei-bu

ACRONYM:

See also JA-065; 126; 299

ADDRESS:
27, Kotodai - dori
Sendai-shi, Miyago-ken

Tel.:

AFFIL:
Miyagi Prefectural Office

Title	PERSONNEL	Function
	Hikaru Sone	
	Tetsuo Takijima	

AP aims and actions:

Research Areas: Odors from pulp mills and fish processing.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	093	GOV	[✓ A] B C D [✓ E] F	01 02 [✓ 03] 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S	T

NAME: Niigato Prefectural Public Health Department

ACRONYM:

See also JA-070; 144

ADDRESS:

5924, Ichi ban bori Dori-machi,
Niigata-shi, Niigata-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	K. Okumura	
	Y. Shinoda	
	S. Yamashita	

AP aims and actions:

Research Areas: Na_2SO_4 Emission

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	094	GOV	[✓ A] B C D [✓ E] [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969	S	T

NAME: Okayama Prefectural Public Health Department

Okayama-Ken Eisei-bu Kankyo Eisei-Ka

ACRONYM:

See also JA-072, 107, 289

ADDRESS:

Uchisange, Okayama-shi
Okayama-ken

Tel.:

AFFIL:

Environmental Sanitation
Department
okayama Prefectural Office

Title	PERSONNEL	Function
	Takashi Otokura	
	Hiroshi Hongo	
	Kentaro Inoue	
	Tatsuo Ishida	
	Eikichi Miyake	
	Kanjo Miyake	
	Ichiro Torii	

AP aims and actions:

Research Areas: Pollution in Mizushima

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	095	GOV	A B C D [✓ E] [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S T

NAME: Osaka Prefectural Public Health Department

Osaku-fu Eisei-bu

ACRONYM:

See also (Osaka-shi)

ADDRESS:

Otemaeno-cho, Higashi-ku,
Osaka-shi

Tel.:

AFFIL:

Osaka Prefectural Office

Title	PERSONNEL	Function
	Kazuo Yasuda	Manager

AP aims and actions:

Comments:

Health of the People (Fumin to Kenko /m/ppv/B5/nfs/Jap/Non/B2

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	096	GOV	[✓ A] B C D [✓ E] F	01 02 03 [✓ 04] 05	11 12 [✓ 13] 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1, 2 [✓ 3]	1969		S T

NAME: Saitama Prefectural Public Health Department

Saitama-Kon Eisei-bu

ACRONYM:

See also JA-075; 109

ADDRESS:

3-37, Takasago-cho,
Urawa-shi, Saitama-ken

Tel.:

AFFIL:

Environmental Health Section
Saitama Prefectural Office

Title	PERSONNEL	Function
	Junichi Kurokawa	
	Kokichi Tanazawa	

AP aims and actions:

Research Areas: Air Pollution Damage from Roof Tile Manufacture.

Comments:

JA	097	GOV	~~A~~ B C ~~D~~ ~~E~~ F	01 02 ~~03~~ 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokushima Prefectural Public Health Department

Tokushima-Ken Eisei-bu

ACRONYM:

See also JA-080; 300

ADDRESS:

1 - chome, Mandai-cho,
Tokushima-shi, Tokushima-ken

Tel.:

AFFIL:

Tokushima Prefectural Office

Title	PERSONNEL	Function
	Heiichiro Kondo	
	Mitsuga Kondo	

AP aims and actions:

Research Areas: H_2S from Viscose Rayon Manufacture

Comments:

JA	098	GOV	~~A~~ ~~B~~ C ~~D~~ ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Prefectural Research Center for Environmental Pollution, Chiba

(Chiba-ken Kogai Kenkyusho)

JA-;45; 089; 104;

See also 245; 246

ADDRESS:

254, Iwasaki
Ichihara-shi, Chiba-ken

Tel.: 0477-2-6371

AFFIL:

Chiba Prefectural Office

Title	PERSONNEL	Function
Dr.	Shin Kachi	Director
	Yozo Kagaya	
	Sadao Omichi	
	Itisao Ota	
	Syomatsu Ote	
Total	22	

AP aims and actions:

Inspection, Monitoring, Measurement, Analysis, Emission Inventory, Aerosol Studies.

Comments:

The work at present is limited to Air Pollution only.

JA	099	GOV	~~A~~ ~~B~~ C ~~D~~ ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969		S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Environmental Science Institute of Hyogo Prefectural

Hyogo-Ken Kogai Kenkyusho

ACRONYM:

See also 054;114;118;131;134

ADDRESS:

2-1, Arata-cho, Hyogo-ku,
Kobe-shi, Hyogo-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Kenichi Ashida	
	Masamichi Hava	
	Akio Horie	
	Hiroyuke Kitamura	
	Tahachiro Koyama	
	Syozo Matsuda	

AP aims and actions:

Research Areas: SO_2 Measurement Methods; Odor control by odor, and adsorbents; Pollen and Soot Measurement; Diffusion Analysis using gaseous tracers.

Comments:

Additional Personnel

Yozo Matsushita
Toshihide Okuna
Nobuhiro Takata
Hideki Tanaka
Masahiko Tsuji
Hiroshi Umeda

Total Personnel 18

JA	100	GOV	~~A~~ ~~B~~ C ~~D~~ ~~E~~ F	~~01~~ 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969		~~S~~ ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kanagawa Pretectural Hazards Prevention

Kanagawa-ken Kogai Senta

ACRONYM:

See also (Kanagawa-ken)

ADDRESS:

3-191-1, Nakamura-cho
Minami-ku, Yokohama-shi
Kanagawa-ken

Tel.:

AFFIL:

See also Kanagawa Prefectural Air Pollution Control Committee

Title	PERSONNEL	Function
	Saburo Kauno	Director
	Kiyoshi Yoshitani	Air Pollution Research
	Toshiro Saiki	"
	Katsuhisa Fukaya	"
	Katsuhiro Tanaka	"
	Nobuaki Kadoya	"
	Takaaki Watanabe	"

AP aims and actions:

Research Areas: Effects of SO_2 on vegetation; Control and effects of Automobile Exhaust.

See Technical Report of Kanagawa Prefectural Air Pollution Control Committee

Comments:

Syogo Ochiai, Tamiaki Kanji, Takashi Mukaida, Narumits Nakamura, Kooji Yanaka, Kazuo Aihara

JA	101	GOV	/ / C / / F	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	/ M S	/ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Mie Prefectural Public Nuisance Center

Mie-Ken Kogai Senta

ACRONYM:

See also JA-064;244;271-281

ADDRESS:

261, Horimoto-cho,
Yokkaichi-shi, Mie-ken

Tel.:

AFFIL:

Mie Prefectural Office

Title	PERSONNEL	Function
	Hiroshi Hirobe	
	Motohide Murata	

AP aims and actions:

Research Areas: Air Quality Measurement Methods

Comments:

JA	102	GOV	/ / C / / /	01 ~~02~~ ~~03~~ 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	/ M S	/ 2 3	1969	/ /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Osaka Prefectural Environmental Pollution Control Center

Osaka-fu Kogai Kanshi Senta

ACRONYM:

See also See Osaka-shi

ADDRESS:

1 - chome, 76, Mori-machi-
Minami, Higashinari - ku
Osaka-shi

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Zenichi Yasui	
	Arira Oshino	
	Toshio Hasegawa	
	Norikasu Iwasa	
	Yasamasa Kumazawa	
	Akiko Miyao	
	Tsugio Mizoguchi	

AP aims and actions:

Research Areas: Computer Control System for Air Pollution Control; Pollution Prediction; Control of emissions from cupolas, sulfuric acid plants and fuel burning sources.

Comments:

JA 102

Pamphlets: "Investigation to Establish Air Pollution Control Standards for Sakai-Senhoku Coastal Area" - 1967 (in Japanese)

"Meteorological Factors and Air Pollution Control in Osaka" - Report No.1 1969 (in Japanese)

"Summary of Countermeasures in 1968" - 1969 (in Japanese)

"Air Pollution Control Activities in Osaka" - 1969 (in English)

"Studies of Computer Control System for Air Pollution Problems" - Report No.2 - 1969 (in Japanese)

JA	103	GOV	[illegible]	[illegible]	C	[illegible]	[illegible]	F	~~01~~	~~02~~	03	04	05	11	~~12~~	13	14	15	21	~~22~~	23	~~24~~	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	1969		S	[illegible]
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: The Tokyo Metropolitan Research Institute for Environmental Protection
Tokyo-To Kogai Kenkyusho

ACRONYM:

See also See Tokyo

ADDRESS:
2-5, Yuraku-cho,
Chiyoda-ku, Tokyo

Tel.:

AFFIL:
Tokyo Metropolitan Office

Title	PERSONNEL	Function
Dr.	Michitaka Kaino	Dir. of Institute
	Toshio Odaira	Chief of Division
	Kinji Nakano	
	Junji Kuzuma	
	Kimio Kubota	
	Saburo Fukuoka	

AP aims and actions:

Section 1 - Measurement of dust, smoke and toxic gases.
2 - Computer control of air pollution.
3 - Radio-isotope analysis of air pollution.
4 - Development of test methods for measurement.
5 - Development of control measures for stationary sources.
6 - Automotive exhaust gas control.
7 - Influence of air pollution on agricultural products.

Comments:

JA 103

Additional Personnel:

Vice-Director	Yoshiaki Kawanami
(Investigation Division)	Ikuo Hayashi
(Health Division)	Shigeru Nagaoka
(Water Pollution Division)	Yoshio Koido
(Noise Pollution Division)	Tomio Mochizuki

JA	104	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969		S	T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Chiba Prefectural Agricultural Experiment Station

Chiba-ken Nogyo Shikenjo

JA-045; 089; 098;245;

See also 246

ADDRESS:

808, Daizenno-cho
Chiba-sHi, Chiba-ken

Tel.: 0472-91-0151

AFFIL:

Title	PERSONNEL	Function
	Masae Hayashi	
	Hideo Ishiwata	
	Harumi Koyasu	
	Yoshihiro Matsuoka	
	Toshio Ohno	
	Osamu Udagawa	
	Tsuyoshi Takasaki	

AP aims and actions:

Research Areas: Effects of SO_2 on rice and pears. Studies on the physiology effects and growth on some crop plants and fruit trees by SO_2.

Comments:
Research Equipment: Two exposure chambers.

Bulletin (Chiba-ken Nogyo Shikenjo Kenkyu Hokoku) 1953/irr/100p/B5/nfs/Jap/Sum(Jap)/A

Annual Report (Chiba-Ken Nogyo Shikenjo Gyomu Nenpo) ?/a/100p/B5/nfs/Jap/Non/B1,B2

JA	105	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Fukushima Prefectural Agricultural Experiment Station

Fukushima-Kenritsu Nogyo Shikenjo

ACRONYM:

See also JA-049; 248

ADDRESS:

20, Wakamiyamae
Koriyama-shi, Fukushima-ken

Tel.: 02492-2-3020

AFFIL:

Tukushima Prefectural Office

Title	PERSONNEL	Function
Dr.Agr.	Toshio Tatsuya	Chief Agricultural Chemistry

AP aims and actions:

Research Areas: Effects of SO_2 and fluorides on rice.

Comments:
Annual Report (Fukushima-Kenritsu Nogyo Shikenjo Gyomu Nenpo)
1907/a/ppv/B5/nfs/Jap/Non/B2

JA	106	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Agricultural Research Institute of Kanagawa Prefectural

Kanagawa-Ken Nogyo Sogo Shikenjo

ACRONYM:

See also Kanagawa-ken

ADDRESS:

496, Teradanawa
Hiratsuka-shi,
Kanagawa-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Michio Maeno	Director
	T. Hirose	

AP aims and actions:

Research Areas: Effect of Air Pollution on Trees.

Comments:

JA	107	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Okayama Prefectural Agricultural Experiment Station

Okayama-Kenritsu Nogyo Shikenjo

ACRONYM:

See also JA-072; 094; 289

ADDRESS:

218, Kitakata, Okayama-shi,
Okayama-Ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Kamata	

AP aims and actions:

Research Areas: Effect of SO_2 on rice and rush grass.

Comments:

Special Bulletin (Okayama-Kenritsu Nogyo Shikenjo Rinji Hokoku)
1909/a/120p/B5/nfs/Jap/Sum(Jap)/A
Journal (Okayama-Kenritsu Nogyo Shikenjo Jiho)
1919/m/28p/A5/¥30/Jap/Non/B1

JA	108	GOV	[✓] B C D E [✓]	01 02 03 04 05	11 [✓ 12] [✓ 13] 14 15	21 22 23 24 25	31 32 33 34 35	L [✓] S	1 [✓] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Gifu Prefectural Sericultural Experiment Station

Gifu-Ken Sangyo Shikenjo

JA-050;128;143; 108;

See also 135;249;250

ADDRESS:

Ota-machi
Mino-Kamo-shi, Gifu-ken

Tel.:

AFFIL:

Gifu Prefectural Office

Title	PERSONNEL	Function
	M. Fujii	

AP aims and actions:

Research Areas: Relation of fluoride pollution to silkworm breeding.

Comments:

Report (Gifu-Ken Sangyo Shikenjo Hokoku)
1916/irr/120p/B5/nfs/Jap/Non/A

Bulletin (Gifu-Ken Sangyo Shikenjo Iho)
1954/irr/120p/B5/nfs/Jap/Non/A

JA	109	GOV	[✓] B C D E [✓]	01 02 03 [✓ 04] 05	11 [✓ 12] [✓ 13] 14 15	21 22 23 24 25	31 32 33 34 35	L [✓] S	1 [✓] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Saitama Prefectural Sericultural Experiment Station

Saitama-Ken Sangyo Shikenjo

ACRONYM:

See also JA-075; 096

ADDRESS:

Kumagaya Kumagoya-shi,
Saitama-ken

Tel.:

AFFIL:

Saitama Prefectural Office

Title	PERSONNEL	Function
	Masahiko Mochida	
	Hiroshi Nishimura	

AP aims and actions:

Research Areas: Air Pollution Damage to silkworms from Roof Tile Manufacture.

Comments:

Bulletin (Saitama-Ken Sangyo Shikenjo Hokoku)
1915/irr/100p/B5/nfs/Jap/Non/A

JA	110	GOV	~~A~~ B C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 ~~33~~ 34 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kanagawa Prefectural Industrial Research Institute

Kanaga-Ken Kogyo Shikenjo

ACRONYM:

See also (Kanagawa-Ken)

ADDRESS:

3173, Tomioka-machi,
Kanazawa-ku, Yokohama-shi,
Kanagawa-ken

Tel.:

AFFIL:

Kanagawa Prefectural Office

Title	PERSONNEL	Function
Dr.	Takamura Suzuki	Director
	Yasuji Himi	
	Saburo Kawahara	
	Osami Mori	
	Fumio Muramatsu	
	Yoshiyuki Nakai	
	Y. Hyomi	

AP aims and actions:

Research Areas: Stack sampling methodology; Emissions from fuel burning; Field surveys; Development of wet flue gas desulfurization process.

Comments:

Bulletin (Kanagawa-Ken Kogyo Shikenjo Kenkyu Hokoku)
1931/irr/65p/B5/nfs/Jap/Non/A

JA	111	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Tokyo Metropolitan Industrial Research Institute

Tokyo - toritsu Kogyo Shoreikan

ACRONYM:

See also (Tokyo)

ADDRESS:

1-7-7, Kaigan, Minato-Ku,
Tokyo

Tel.: 03(431)4171

AFFIL:

Tokyo Metropolitan Office

Title	PERSONNEL	Function
	Shigeo Yonekura	Research on Industrial and waste water

AP aims and actions:

Research Areas: Industrial Waste Water Treatment

Comments:

Reports (Tokyo-toritsu Kogyo Shoreikan Hokoku)
1952/a/90p/B5/nfs/Jap/Sum (Europ)/A

JA	112	GOV	/ B C D E /	01 02 03 04 05	/ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	/ M S	/ 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Osaka Prefectural Center for Adult Diseases

Osaka-furitsu Seijinbyo Senta

ACRONYM:

See also (Osaka-shi)

ADDRESS:

1, Mori-machi, Minami,
Higashinari-ku,
Osaka-shi

Tel.:

AFFIL: Osaka Prefectural Office

Title	PERSONNEL	Function
	Akio Ichinosawa	
	Noriko Nakayama	
	Tadahiko Shimizu	
	Hisao Takahashi	
	Yoshizo Tsunetoshi	
	Miyoko Ueda	
	Yasuyo Yamagata	

AP aims and actions:

Research Areas: Relation of Air Pollution to Chronic Bronchitis.

Comments:

Annual Report

1961/s/130p/B5/nfs/Europ/Sum (Europ)/A

JA	113	GOV	/ B C D E F	01 02 03 04 05	11 12 13 14 15	21 / 23 24 25	31 32 33 34 35	L / S	1 / 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokyo Metropolitan Isotope Research Institute

Tokyo-toritsu Isotope Sogo Kenkyujo

ACRONYM:

See also (Tokyo)

ADDRESS:

2-11-1, Fukazawa, Setagaya-ku,
Tokyo

Tel.: 7021-3111

AFFIL:

Title	PERSONNEL	Function
	Kunihiko Asakuno	
	Yoshiharu Shinozaki	
	Hiroshi Yamasaki	

AP aims and actions:

Research Areas: Activation Analysis of trace metal pollutant; Measurements of particle size; Use of natural radioactivity as a tracer.

Comments:

JA	114	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Amagasaki City Institute of Hygienic Sciences

Amagasaki-shi Eisei Shikenjo

ACRONYM:

See also JA-054; 099

ADDRESS:

4-16-21, Higashi-Naniwa-cho,
Amagasaki-shi, Hyogo-ken

Tel.: 06(401)0161, 0162

AFFIL:

Public Nuisance Control Center
Amagasaki City Office

Title	PERSONNEL	Function
Dr.	Harug Kawai	Principal
	Koshio Fujisawa	Chief of Public Nuisance
	Yoshihiro Kishimoto	Chief - Control Section Physical & Chemical Research Division
	Minoru Saito	Staff
	Eiji Yamashita	Staff
	Takahiko Yano	Staff

AP aims and actions:

Research Areas: Measurement of SO_2, Particulate Matter and Trace Metals.
Air Pollution Forecast.

Comments:

Annual Report (Kogai no Genjo to Taisaku)

(Taiki Osen Chosa-Hokokusho)

JA	115	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Hakodate City Institute of Hygienic Sciences

Hakodate-shi Eisei Shikenjo

See also JA-053; 090; 129; 254-258

ADDRESS:

1, Toyokawa-cho
Hakodate-shi, Hokkaida

Tel.: 0138, 22, 2151

AFFIL:

Hakodate City Hygienic
Laboratory

Title	PERSONNEL	Function
	Total 28	

AP aims and actions:

(1) Survey of Air Pollution (SO_2, CO).

(2) Research on water pollutions (foul water, drains, river, sea water, drinking water).

(3) Survey of the food pollution.

(4) Epidemiological observations.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	116	GOV	[✓ A] B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	1969	[✓ S] T

NAME: Kawasaki City Institute of Hygienic Sciences

Kawasaki-shi Eisei Shikenjo

ACRONYM:

See also (Kanagawa-Ken)

ADDRESS:

1-7, Isago, Kawasaki-shi
Kanagawa-ken

Tel.:

AFFIL:

Kawasaki City Office

Title	PERSONNEL	Function
Dr.	Motiji Terabe	Director
	(see staff of Kawasaki City, Public Health Department	

AP aims and actions:

Comments:

Annual Report (Kawasaki-shi, Eisei Shikenjo Nenpo)

Pamphlets: "Air Pollution in Kawasaki City"
Report No.9-1967 (In Japanese)

"Public Nuisance in Kawasaki City" 1968 (In Japanese)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	117	GOV	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T

NAME: Kitakyushu City Institute of Public Health

Kitakyushu-shi Eisei Kenkyusho

275-277

See also JA-048; 267

ADDRESS:
3 Chome, Asahioka
Kokura-ku, Kitakynshu-shi,
Fukuoka-ken

Tel.: 093-57-0067

AFFIL: Dept. of Public Health
Kitakyushu City Office

Title	PERSONNEL	Function
Dr.	Takashi Akyami	Director of Research
Mr.	Nobeyashu Shigemori	Chief Chemist
Mr.	Tetsuichi Tabata	Chemist
Mr.	Yukuo Aquchi	Chemist
Mr.	Akio Miyazaki	Biologist

AP aims and actions:

Investigation of Air Quality for Air Pollution Control.

Comments:

JA	118	GOV	[✓ A] B C [✓ D] E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L [✓ M] S	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Public Health Research Institute of Kobe City
Kobe-shi Eisei Kenkyusho

ACRONYM:

See also JA-054;099;131

ADDRESS:
1-5, Kano-cho, Ikuta-ku,
Kobe-shi, Hyogo-ken

Tel.: 078-23-4016

AFFIL:

Title	PERSONNEL	Function
	Akira Hamaguchi	Chief, Environmental Chemistry
	Kiyoshi Ito	
	Sakingo Inai	

AP aims and actions:

Research Areas: SO_2 Measurement Methods;
Airborne fungi.
Suspended particle matter and
trace metal in its measurement.

Comments:

Annual Report (Kobe-shi Eisei Kenkyusho Nenpo) 1956/a/100p/B5/nfs/Jap.Europ/Sum (Jap.Europ)/A

JA	119	GOV	[✓ A] B C [✓ D] E [✓ F]	[✓ 01] 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kyoto City Institute of Public Health
Kyoto-shi Eisei Kenkyusho

268-274

See also JA-063; 132; 142

ADDRESS:
1-2 Mibu Higashi Takada-cho
Nakakyo-ku, Kyoto

Tel.: (075)312-494

AFFIL:

Title	PERSONNEL	Function
	Senzo Kawai	Co-chief, Research Section Environmental Sanitation
	Susumu Takada Shinichi Yamanaka	Researchers Environmental Sanitation

AP aims and actions:

Polynuclear Aromatic Hydrocarbons associated with particulates in Kyoto City air, chemical and photochemical reaction of SO_2, CO in air.

Comments:

Annual Report (Kyoto-shi Eisei Kenkyusho Eiken Nenpo) 1910/a/140p/25 x 18 cm/nfs/Jap/Non/A

JA	120	GOV	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Muroran City Public Health Center
Muroran-shi Eisei Senta

ACRONYM:

See also JA-053;090;254-258

ADDRESS:

Muroran-shi, Hokkaido

Tel.:

AFFIL:
Muroran City Office

Title	PERSONNEL	Function
	T. Toriyama	

AP aims and actions:

Research Areas: Air Quality Measurement

Comments:

JA	121	GOV	A B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Nagoya City Institute of Public Health
Nagoya-shi Eisei Kenkyusho

282-285

See also JA-042; 088; 133

ADDRESS:

1-11, Hagiyama-cho
Mizuho-ku, Nagoya-shi
Aichi-ken

Tel.: 051-841-1511

AFFIL:

Title	PERSONNEL	Function
B. Sc.	Moihiko Hayakawa	
Phar.B.	Eiichi Ito	
B. E.	Kiyoshi Kubo	
M. D.	Juji Takeuchi	
Phar. B.	K. Kamakura	
Phar. B.	A. Wada	
Total	52	

AP aims and actions:

Research Areas: SO_2 and Acrolein Measurement Methods

Comments:

Report (Nagoya-shi Eisei Kenkyusho-ho)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	122	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 ~~25~~	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	~~S~~ T

NAME: Osaka City Institute of Hygiene

Osaka-shiritsu Eisei Kenkyusho

ACRONYM:

See also (Osaka-shi)

ADDRESS:

38, Kita Ohgi-machi, Kita-ku
Osaka-shi

Tel.:

AFFIL:

Department of Environmental Health

Title	PERSONNEL	Function
Dr.	Gendo Ohmori	Dir. of Institute
	Michio Oka	Chief of Department
	Osamu Fukase	
	Fusa Kaneko	
	Toshio Kawaraya	
	S. Hirata	
	T. Haruki	

AP aims and actions:

Research Areas: Epidemiology and physiology of Air Pollution; Effect of SO_2 on rodents; Measurement of Air Pollutants; Atmospheric Photochemistry; Carcinogenic bioassay.

Comments:

Reports (Osaka-shiritsu Eisei Kenkyusho Hokoku) 1924/a/125p/B5/nfs/Jap/Non/B2

Bulletin (Osaka-shiritsu Eisei Kenkyusho Gyomu Shiryo) /irr/ppv/ /nfs/Jap/Non/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	123	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T

NAME: Otaru Municipal Public Health Center

Otaru-shi Eisei Sentron

ACRONYM:

See also JA-053;090;254-258

ADDRESS:

Otaru-shi, Hokkaido

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Kiyoshi Kamada	Sanitary Inspector
	Naoyasu Nakabayashi	" "

AP aims and actions:

Research Areas: Odors and their control.

Comments:

Recently, sink odors from the industry have presented a big problem of public nuisance in Otaru, which has a population of 200,000. From the viewpoint of public health, we have made some surveys on the odors and have been studying deodors.

JA	124	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Sapporo City Institute of Hygienic Sciences

Sapporo-shi Eisei Shikenjo

053; 090

See also 138; 254-8

ADDRESS:

Minami, 9-jo, Nishi, 7 chome,
Sapporo-shi, Hokkaido

Tel.:

AFFIL: Sapporo City Office

Title	PERSONNEL	Function
	Total 36	Air Pollution 2
	Y. Chiba Sasak	

AP aims and actions:

Research on Dusts, particulates, motor vehicular exhaust, SO_2 (removal) etc.

Comments:

JA	125	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Sakai City Institute of Public Health

Sakai-sli Eisei Kenkyusho

ACRONYM:

See also (Osaka-shi)

ADDRESS:

3-28, Higashi, Kaino-machi,
Sakai-shi, Osaka-Fu

Tel.:

AFFIL:

Sakai City Office

Title	PERSONNEL	Function
	Total 18	Public Nuisance Section

AP aims and actions:

Air Quality Monitoring, analysis and investigations in Sakai City. Use of telemeter (unique of Sakai City).

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	126	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S	T

NAME: Sendai City Research Institute of Hygienic Sciences

Sendai Eisei Shikenjo

ACRONYM:

See also

ADDRESS:

59-7, Higashi, Kyuban-cho
Sendai-shi, Miyagi-ken

Tel.:

AFFIL:

Sendai City Office

Title	PERSONNEL	Function
	T. Kanno	

AP aims and actions:

Comments:

Research on Air Pollution
(Taiki Osen ni Kausuru
Chosa Kenkyu)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	127	GOV	~~A~~ B C ~~D~~ E F	~~01~~ 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	S	T

NAME: Yokohama Municipal Public Health Laboratory

Yokohama-shi Eisei Kenkyusho

ACRONYM:

See also (Kanagawa-shi)

ADDRESS:

1-12-17, Takigashira, Isogo-ku,
Yokohama-shi, Kanagawa-ken

Tel.:

AFFIL:

Yokohama City Office

Title	PERSONNEL	Function
M.D.	S. Yamada	Director
	Yoko Endo	
D.Phar.	Taro Kawamura	
	Etsuo Yoneyama	

AP aims and actions:

Research Areas: Relation between Air Pollution and Visibility. Effect of Automobile exhaust on experimental animals.

Comments:

JA	128	GOV	[✓ A]	B	C	[✓ D]	[✓ E]	F	[✓ 01]	02	03	04	05	11	12	13	14	15	21	[✓ 22]	23	24	25	31	32	33	34	35	L	M	[✓ S]	1	2	[✓ 3]	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Gifu City Public Health Department

Gifu-shi Eisei-bu

JA-050; 108; 249; 250;

See also 135; 143

ADDRESS:

Imazawa-cho
Gifu-shi, Gifu-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Haruo Ukai	

AP aims and actions:

Research Areas: Automobile pollution in Vehicular tunnel.

Comments:

JA	129	GOV	[✓ A]	B	C	[✓ D]	[✓ E]	F	01	02	[✓ 03]	04	05	11	12	13	14	15	21	[✓ 22]	23	24	25	31	32	33	34	35	L	M	[✓ S]	1	2	[✓ 3]	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Hakodate City Public Health Department

Hakodate-shi Eisei-bu

ACRONYM:

See also JA-053; 090; 115; 254-258

ADDRESS:

Hakodate-shi, Hokkaida

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Kenji Shigeno	Chief, Public Health

AP aims and actions:

Research Areas: Odor control of fish processing.

Comments:

JA	130	GOV	~~A~~ B C ~~D~~ E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kawasaki City Health Bureau

Kawasaki-shi Eisei Kyoka

ACRONYM:

See also (Kanagawa-ken)

ADDRESS:

Mimamoto-cho,
Kawasaki-shi,
Kanagawa-ken

Tel.:

AFFIL:

Bureau of Environmental
Pollution Control

Title	PERSONNEL	Function
Dr.	Motoji Terabe	Director
	A. Murase	
	H. Matsumoto	
	Shizuo Sato	
	M. Nagata	
	Y. Suto	
	A. Oda	

AP aims and actions:

Research Areas: Measurement Methods for SO_2 and suspended particulate matter.

Comments:

JA	131	GOV	~~A~~ B C ~~D~~ ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kobe City Civil Life Department

Kobe-shi Eisei-bu

ACRONYM:

See also JA-054;099;118

ADDRESS:

2-7, Kano-cho, Ikuta-ku,
Kobe-shi, Hyogo-ken

Tel.:

AFFIL:

Public Nuisance Prevention Division

Title	PERSONNEL	Function
	Toyogi Kagiki	Director

AP aims and actions:

Investigations Section: General Affairs Section
Consulting Section

Control Section: Air Pollution & Noise Control
Water Pollution Control

Comments:

JA	132	GOV	[✓] B C [✓] [✓] F	01 02 03 04 05	[✓] 12 [✓] 14 15	21 [✓] 23 [✓] 25	31 32 33 34 35	[✓] M S	[✓] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kyoto City Health Department

Kyoto-shi Eisei-bu

ACRONYM:

See also JA-063;119;142;268-274

ADDRESS:

Oike, Kawara-cho, Nakagyo-ku,
Kyoto-shi, Kyoto-fu

Tel.:

AFFIL.:

Kyoto City Office

Title	PERSONNEL	Function
	Tsunetaro Furuichi	
	Teiji Hattori	
	Shuichi Inada	
	Masaaki Kadoma	
	Zuzura Kataoka	
	Masanoshin Kawamura	

AP aims and actions:

Research Areas: Epidemiology of Air Pollution; Corrosion and Erosion of Metal, Stone, Paint and Textiles by air pollution; Variation of pollution with height; Dispersion Measurements in wind tunnel.

Comments:

JA	133	GOV	[✓] B C [✓] [✓] F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓] S	1 [✓] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Nagoya City Public Health Department

Nagoya-shi Eisei-bu

ACRONYM:

See also JA-042;088;121;
282-285

ADDRESS:

3-1-1, Sannomaru, Naka-ku,
Nagoya-shi, Aichi-ken

Tel.:

AFFIL.:

Public Nuisance Control Section
Nagoya City Office

Title	PERSONNEL	Function
	Y. Murase	
	M. Okayama	
	N. Shibata	
	H. Takamura	

AP aims and actions:

Comments:

JA	134	GOV	~~A~~ B C ~~D~~ ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S 1
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Nishinomiya City Public Health Department

Nishinomiya-shi Eisei-bu

ACRONYM:

See also JA-054;099

ADDRESS:

Nishinomiya-shi, Hyogo-ken

Tel.:

AFFIL:

Nishinomiya City Office

Title	PERSONNEL	Function
	Koji Tanaka	

AP aims and actions:

Research Area: Analysis of Trace Metals in Particulate Matter.

Comments:

JA	135	GOV	~~A~~ B C ~~D~~ ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ogaki City Public Health Department

JA-050; 108; 128; 143

See also 249; 250

ADDRESS:

Ogaki-shi, Gifu-ken

Tel.:

AFFIL:

Public Nuisance Unit
Ogaki City Office

Title	PERSONNEL	Function
	Y. Hayano	
	S. Morishita	
	K. Nohara	
	R. Tsuya	
	K. Wataya	

AP aims and actions:

Research Areas: Survey of pollution in city.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		S	T
JA	136	GOV	✓ B C ✓ ✓ F	01 02 03 04 05	✓ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ✓	1 2 ✓	1969		S	T

NAME: Oita City Public Health Department

Oita-shi Eisei-bu

ACRONYM:

See also JA-071

ADDRESS:

2-ban, Niage-cho,
Oita-shi, Oita-ken

Tel.: 4-6111

AFFIL:

Title	PERSONNEL	Function
	Tadao Goto	
	Iseno Kudo	
	Teruhika Uchida	
	R. Sidoji	

AP aims and actions:

Research Areas: Relationship between Air Pollution and Respiratory Disease.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		S	T
JA	138	GOV	✓ B C ✓ ✓ ✓	✓ 02 03 04 05	11 12 13 14 15	21 ✓ 23 ✓ 25	31 32 33 34 35	L M ✓	1 2 ✓	1969		S	T

NAME: Sapporo City Public Health Bureau

Sapporo-shi Eisei Kyoka

ACRONYM:

See also JA-090;115;124;
254-258

ADDRESS:

Nischi 4 chome, Kita Ichijo,
Sapporo-shi, Hokkaido

Tel.:

AFFIL:

Sapporo City Office

Title	PERSONNEL	Function
	Susuona Watanabe	Chief, Bureau Public Health
	T. Kato	
	Yukihiro Mizukami	
	T. Shioda	
	T. Yamada	

AP aims and actions:

Research Areas: Air Quality Measurement; Visibility; Automobile Exhaust

Comments:

Annual Report on Air Pollution

JA	137	GOV	~~A~~	B	C	~~D~~	~~E~~	~~F~~	01	02	~~03~~	~~04~~	05	11	12	~~13~~	14	15	21	~~22~~	23	24	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	1969			~~[illegible]~~	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date				

NAME: Osaka City Public Health Department

Osaka-shi Eisei-bu

ACRONYM:

See also (Osaka-shi)

ADDRESS:

Ote Maeno-cho, Higashi-ku,
Osaka-shi

Tel.:

AFFIL:

Public Nuisance Control Unit
Project Bureau, Osaka City Office

Title	PERSONNEL	Function
	Takeshi Matsumiya	Chief of Unit
	Tsutomo Inoue	Deputy Chief
	Motoe Aisaki	
	Hiroshi Muranaka	
	Kenji Nanbu	
	Hajime Noda	
	Tadashi Taman	

AP aims and actions:

Research Areas: Emissions from Electric furnaces, fuel burning, and fertilizer manufacture; Emission Inventory Procedures

Comments:

Total Personnel 29

JA 137

Pamphlets: "Public Nuisance from Glass Manufacture" - 1957 (In Japanese)

"Air Pollution and Metal Corrosion Index" - 1967 and 1968 (In Japanese)

"Measurement of suspended particulate matter by Hi-Volume Samplers" 1966, 1967 and 1968

"Public Nuisance from Electric Furnaces" - 1968 (In Japanese)

"Influence of Air Pollution on Vegetation" - 1968 (In Japanese)

"Air Pollution in Southern Coastal Area" - 1967 (In Japanese)

"Air Pollution in Nishiyodogawa Area" - 1967 (In Japanese)

JA	139	GOV	[✓ A] B C [✓ D] E [✓ F]	[✓ 01] [✓ 02] [✓ 03] [✓ 04] 05	11 [✓ 12] 13 14 [✓ 15]	21 22 23 [✓ 24] 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		[✓ S] T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Osaka City Comprehensive Planning Bureau
Air Pollution Control Center

ACRONYM:

See also (Osaka-shi)

ADDRESS:
1-4, Nakanoshima, Kita-ku
Osaka-shi

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Ph.D.	Michio Nakano	Chief of Center
	Yasushi Hamaguohi	
	Yasuhiro Hayashi	
	Heroshi Takenchi	
	Yosuke Kozai	
	Kiyokazu Iroue	
	Yoshihibo Katahira	
	Yasuchika Muraki	

AP aims and actions:
Research Areas: Emission Inventory Procedures; Emissions from Electric furnaces, fuel burning and automobiles; Air Quality Measurement methods; Effect of air pollution on vegetation, visibility and the economy.

Pamphlet: "Air Over Osaka City - 1967" (English)

Comments: Additional Personnel:
Toshiliko Inoue
Kanji Sakai
Shoidir Hamada
Komei Yagi
Noboru Nakatsuji
Shinzaburo Fukuyama - Chief of Bureau

JA	140	GOV	[✓ A] B C [✓ D] [✓ E] F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Wakayama City Public Nuisance Control Division
Planning Department

ACRONYM:

See also JA-084

ADDRESS:
1, Banmachi
Wakayama-shi, Wakayama-ken

Tel.: 0734-23-7111

AFFIL.:
Wakayama City Office

Title	PERSONNEL	Function
	Hidefumi Hiura	

AP aims and actions:
Research Areas: Field Surveys

Comments:

JA	141	GOV	[✓ A] B C [✓ D] [✓ E] [✓ F]	[✓ 01] 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Yokohama City Public Nuisance Control Center

Yokohama-shi Eisei-Kyoku Kogai Senta

ACRONYM:

See also (Kanagawa-ken)

ADDRESS:
1-1, Minato-machi, Naka-ku,
Yokohama-shi, Kanagawa-ken

Tel.: 045-641-1441

AFFIL:

General Affairs Bureau
Yokohama City

Title	PERSONNEL	Function
Dr.	Nobuhiko Sukegawa	Director
Dr.	Katsumi Saruta	
Dr.	Mitsuo Watanabe	

AP aims and actions:

Research Areas: Relation of Air Pollution to Chronic Bronchitis; Effect of Automobile Exhaust on experimental animals; Air Quality Measurement.

Comments:

Quarterly Report - Special Edition on Public Nuisance (Chosa Kiho) Feb. 1968 (in Japanese)

JA	142	GOV	[✓ A] B C D E F	01 02 03 04 05	11 12 [✓ 13] 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kyoto City Dyeing and Weaving Laboratory

JA-063; 119; 132;

See also 268-274

ADDRESS:

Kyoto-shi,
Kyoto-Fu

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Takeshi Takabe	Director
	Hiroshi Kawaguchi	Research Engineer
	Masanori Saruwatari	" "
	Jiro Takimoto	" "
	Hiroshi Yamada	" "

AP aims and actions:

Research Areas: Effect of Air Pollution on Textiles

Comments:

JA	143	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Gifu Local Meteorological Observatory

Gifu Chiho Kishodai

050; 108; 128

See also 135; 249-50

ADDRESS:

6, Ninomaru, Kano,
Gifu-shi, Gifu-ken

Tel.: 71-4109

AFFIL: Japan Meteorological Agency
(Kisho-cho) (027)
Ministry of Transport
(Un'ya-sho) (024)

Title	PERSONNEL	Function
Mr.	Tokiro Kadowaki	Director

AP aims and actions:

Research Areas: Meteorological Analysis of Air Pollution

Comments:

Studies on dispersion of effluents from atomic power plant stacks. Atomic energy meteorological committee.

JA	144	GOV	~~A~~ B ~~C~~ D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Niigata Local Meteorological Observatory

Niigata Chiho Kishodai

ACRONYM:

See also JA-070; 093

ADDRESS:

4-4-1 Saiwai-nishi

Niigata-shi, Niigata-ken

Tel.: 44-170

AFFIL: Japan Meteorological Agency
(Kisho-cho) (027)
Ministry of Transport
(Un'ya-sho) (024)

Title	PERSONNEL	Function
	Tsuneo Noro	Chief, Niigatu Airport Aviation Weather Branch

AP aims and actions:

Research Areas: Wind Distribution over Niigata

Comments:

T. Noro - on the weather of Niigate City. Study of city climate.

(J. Meteorological Res.)

JA	145	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Yokohama Local Meteorological Observatory

Yokohama Chiho Kishodai

ACRONYM:

See also (Kanagawa-ken)

ADDRESS:

99, Yamate-cho, Naka-ku,
Yokohama-shi, Kanagawa-ken

Tel.:045-621-1991 or 1999

AFFIL:
Japan Meteorological Agency
(Kisho-cho) (027)
Ministry of Transport
(Un'yu-sho) (024)

Title	PERSONNEL	Function
	M. Kabasawa	Director
	K. Seki	

AP aims and actions:

Research Areas: SO_2 Meteorological Relationships

Areas: Yokohama, Kawasaki

Comments:
Investigations are carried out on a joint basis with Kanagawa Prefecture and the reports are published in Kanagawa Prefectural Air Pollution Publications.

JA	147	NAT	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ ~~34~~ ~~35~~	L M S	~~1~~ 2 3	1969		~~S~~ ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Public Nuisance Prevention Corporation

Kogai Boshi Jigyo Dan

ACRONYM:

See also JA-327

ADDRESS:

Lino Building,
2-1-1, Uchisaiwai-cho
Chiyoda-ku, Tokyo
Tel.: 03-(501) 3251

AFFIL:

Title	PERSONNEL	Function
	Banbei Hara	Director

AP aims and actions:

Uses Federal Pension Funds as basis for Loans for Construction of Pollution Abatement Facilities.

Comments:
This organization was established in October 1965 as a special governmental corporation under the Kogai Boshi Jigyo Dan Law. It is administered by both the Ministries of Health and Welfare, and of International Trade and Industry.

JA	146	GOV	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Toyama Local Meteorological Observatory
Toyama Chiha Kishodai

ACRONYM:

See also 083

ADDRESS:
2415 Isnizaka
Toyama-shi Tojama-ken

Tel.: (0764-(41)-4008-9

AFFIL.:
Japan Meteorological Agency
(Kisho-cho) (029)
Ministry of Transport (Onjur-sho) (029)

Title	PERSONNEL	Function
D. Sc.	Yoshio Ohta	Chief of the Toyama Local Meteorological Observatory

AP aims and actions:

Research Areas: Meteorological Analysis of Air Pollution.

Comments:
The air pollution in Tokyo was explained meteorologically, in using the data obtained from the weather stations, watch-towers, and the health offices in and around Tokyo. The vertical distributions of air pollution were analyzed using the data at Tokyo and Kawaguchi towers.

JA 146

The scheduled activities of the corporation are:

(1) Land procurement and construction.
  (a) Construction of cooperative facilities for prevention of public nuisances.
  (b) Construction of cooperative buildings for prevention of public nuisances.
  (c) Land procurement for relocation or initial location of factories for prevention of public nuisances.
  (d) Construction of public welfare facilities.

(2) Financing.
  (a) Financing cooperative facilities for prevention of public nuisances.
  (b) Financing private facilities for prevention of public nuisances.

JA	148	NAT	☒ B C D E ☒	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	☒ M S	☒ 2 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: The Research Development Corporation of Japan
Shin Gijutsu Kaihatsu Jigyodan

ACRONYM:

See also

ADDRESS:

2-5-2, Nagata-cho, Chiyoda-ku,
Tokyo

Tel.: 581-6451

AFFIL:

Title	PERSONNEL	Function
	Total 61	

AP aims and actions:

To develop the outcome of scientific research in Japan on an industrial level and to promote the utilization of each development.

Comments:

Annual Report (Shin Gijutsu Kaihatsu Jigyodan Nenpo)
1966/a/50p/B5/nfs/Jap/Non/B2

JA 148

Life and Environment (Seikatsu to Kankyo)
1956/m/90p/¥150/Jap/Non/B2

"Report on Measurements and Analyses of Air Pollution for Ministry of Health and Welfare" - 1967

Report on Measurement of Control Odor.

Report on Measurement of Difference between Atomic Absorption and Emission spectrometry methods for trace metals in the atmosphere.

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	149	NAT	/ / C / E /	01 02 03 04 05	11 12 13 14 15	21 / 23 24 25	31 32 33 34 35	/ M S	/ 2 3	1969		/ /

NAME: Japan Environmental Sanitation Center

Nihon Kankyo Eisei Senta

ACRONYM:

See also

ADDRESS:

198-3 Yotsuya Kami-cho,
Kawasaki-shi, Kanagawa-ken

Tel.:

AFFIL: Support: Membership fees from over 150 Prefectural and municipal governments and 70 companies; fees for services, grants from industry and Ministry of Health & Welfare (017)

Title	PERSONNEL	Function
	H. Miyake	Managing Director
	N. Shimazaki	Vice-Director
	K. Yogomi	Vice-Director
	R. Hayakawa	Chief
	Y. Shigeta	Chief

AP aims and actions:

Conduct of training courses; Preparation of educational material; Conduct of field surveys; analysis of samples from National Air Sampling Network.

Research Areas: Odor Measurement and evaluation; Measurement of atmospheric particulate matter; Trace metal analysis.

Comments:

Additional Personnel:
Yasuyulu Hoshyka
Akiko Suzuki
Manabu Tani
Hiromi Suzuki
Shigey Oshi
Saki Kawa
Tomohibo Ishiguro

Total Staff 60
Technical 27

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	150	GOV	/ B C D E /	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	/ M S	/ 2 3	1969		S T

NAME: Japan Industrial Location Center

Nihon Kogyo Ritchi Senta

ACRONYM:

See also JA-039; 339

ADDRESS:

2-1, Shiba, Kotohira-cho,
Minato-ku, Tokyo

Tel.:

AFFIL: Subsidized by Ministry of International Trade and Industry and local government by private companies. (008)

Title	PERSONNEL	Function

AP aims and actions:

A study for the public nuisance of industry on its legal and economic aspects - by Mrs. Tomoko Tanada.

Comments:

Annuals (Nihon Kogyo Ricchi Senta Kenkyn Nenpo) 1963/a/100p/B5/nfs/Jap/Non/B

JA	151	NAT	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	[✓ S] [✓ T]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute for the Science of Labor

Rodo Kagaku Kenkyusho

ACRONYM:

See also JA-038

ADDRESS:

2-1226, Soshigaya, Setagaya-ku,
Tokyo

Tel.: 482-3141

AFFIL:

Subsidized by Ministries of
Health and Welfare; and Education

Title	PERSONNEL	Function
	Kikuji Kimura	Aerosol
M.D.	Toyohiko Miura	
	Kenji Nakaaki	Carbon Monoxide and Oxidants
M.D.	Osamu Tada	
M.D.	T. Sano	Pneumoconiosis

AP aims and actions:

Research Areas: Aerosol and gaseous deposition in the respiratory tract; Aerosol Measurement Methods; Carbon monoxide concentrations and effects in Automobiles and Tollgate Houses. Pneumoconiotic changes by air pollution.

Book: Miura and Kimura, "Dust Measurement" ¥400
(in Japanese)

Comments:

Journal (Rodo Kagaku)
1924/m/60p/B5/¥240/Jap/Sum(Europ)/A.C

Reports
1931/SA/40p/B5/¥400/Europ/Sum
(Europ)/A

JA	153	NAT	[✓ A] B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	L [✓ M] S	1 [✓ 2] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Industrial Research Institute, Japan

Kagyo Kaihatsu Kenkyusho

ACRONYM:

See also

ADDRESS:

3-31-8, Jingumae, Shibuya-ku,
Tokyo

Tel.: 03-402-2777

AFFIL:

Supported by Chemicals
Steel Manufacturers

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Flue Gas Desulfurization.

Comments:

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	152	NAT	A B [✓ C] D E F	01 02 03 04 05	11 12 13 14 15	[✓ 21] 22 23 24 25	31 32 33 34 35	[✓] M S	[✓] 2 3	1969		[✓] [✓]

NAME: Japanese Standards Institute

Nilton Kikaku Kyokai

ACRONYM:

See also

ADDRESS:

Nihon Kiku Kyokai Bldg.
89 Akasaka Hitotsugi-cho
Minato-ku, Tokyo
Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Japan Industrial Standards related to air pollution.

Comments:

K. 0103	Test methods for sulfur oxides in flue gas
K. 2201	Coke
K. 2202	Gasoline
K. 2203	Kerosene
K. 2204	Gas oil
K. 2205	Residual Oil
K. 2215	Diesel Engine Oil
K. 2216	Diesel Engine Oil
K. 2262	Petroleum products, Lamp method, for analysis of sulfur

JA 152

K. 2263	Petroleum products, Pump method, for analysis of sulfur
K. 2273	Petroleum products, combustion tube method, for analysis of sulfur
K. 2301	Fuel gas, analytical methods
K. 2302	Fuel gas, analysis of special componants.
K. 2303	Fuel gas, measurement of caloric value.
K. 2304	Fuel gas, measurement of specific gravity
K. 2555	L. P. G., test method for sulfur content
B. 7305	Thermometer - automatic recording type (thermograph)
B. 7306	Hygrometer - automatic recording type (hygrograph)
B. 7307	Barometer - automatic recording type
B. 7411	Thermometer - glass
B. 8330	Test methods for blowers
C. 1601	Thermometer - thermoelectric current type
C. 1602	Thermo couples
C. 1603	Thermometer - resistor type
C. 1604	Resistor for measurement of humidity
C. 1607	Automatic thermograph - electronic tube type
D. 1030	Test method for toxic components of automotive exhaust gases
M. 8801	General principles for measurement and analysis of coal and coke
M. 8812	Industrial analysis of coal and coke
M. 8813	Elemental analysis of coal and coke
M. 8814	Measurement of caloric value of coal and coke
B. 8222	Method for calculation of heat balance of steam boiler
G. 0703	Method for calculation of heat balance of arc furnaces
R. 0303	Method for calculation of heat balance of cement kilns
Z. 9202	General methods for calculation of heat balance
Z. 8808	Method for measurement of dust in stack gas
Z. 8810	Method for measurement of air-borne dust

JA	154	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Public Health Institute

Hoken Eisei Kenkyusho

ACRONYM:

See also

ADDRESS:

2-2, Koami-cho, Nihon bashi
Chuo-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

News(Hoken Eisei Koho)
1966/2nospm/8p/42cm/#4,000pa/
Jap/Non/B2

JA	155	NAT	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Research Center for Public Nuisances

Kogai Kenkyn Taisaku Senta

ACRONYM:

See also

ADDRESS:

10, San'ei-cho, Shinjuku-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:
Reports of Public Nuisances,
Government and Public Offices
(Kankocho Kogai Senmon Shiryo)
1966/bm/80p/B5/¥700/Jap/Non/B1,
B2, D

JA	156	NAT	[✓ A] B C [✓ D] E F	01 02 [✓ 03] 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Research Council of Odor Control
Shuki Taisaku Kenkyu Kai

ACRONYM:
See also

ADDRESS: c/o Japan Environmental Sanitation Center (Nihon Kankyo Eisei Senta) 198-3, Yotsuya Kami-cho, Kawasaki-shi, Kanagowa-ken
Tel.:

AFFIL: Membership: Japan Environmental Sanitation Center (above) and 30 Private Companies working on odor control.

Title	PERSONNEL	Function
	Yoshihiro Shigeta	Secretary (JESC)
	Yasujuki Hoshika	
	Tomohiro Ishiguro	
	Masoyosie Karnosho	Takasago Perfume Co.
	Toshio Takemaka	Ogawa "
	Takashi Akeyama	Hasegawa "
	Taichiro Nameki	Takada Medicine Co.

AP aims and actions:

Research of odor quantity methods by sensary and chemical (mainly gas chromatography) methods working on odor control (sourses rendering petrochemical, Kraft pulping, sewage and night-soil plants, incinerator etc.)

Comments:

JA	157	NAT	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Study Group for Public Nuisance Control
Kogai Taisaku Gijutsu Doyukai

ACRONYM:
See also

ADDRESS:
c/o Sanshin Bldg., 3-4 Nihonbashi-dori, Chuo-ku, Tokyo
Tel.:

AFFIL:

Title	PERSONNEL	Function
	Noboru Suzuki	Secretary General

AP aims and actions:

Comments:

Journal of Public Nuisances
(Kogai to Taisaku)
1965/bm/70p/B5/¥220/Jap/Non/B

JA	158	NAT	A [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Power and Weather Coordinating Committee

Denryoku Kisho Renraku Kai

ACRONYM:

See also JA - 027

ADDRESS:

1-7, ote-machi, Chiyoda-ku
Tokyo

Tel.:

AFFIL: Membership; National Railways, Electric Power and other Private Companies.

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Bulletin (Denryoku Kisho Renraku Kai Kai ho)
1961/a/30p/B5/nfs/Jap/Non/B2

Quarterly (Denryoku to Kisho-Denryoku Kisho Kenraku Kai Iho)
1939/q/75p/B5/nfs/Jap/Sum(Europ)/A.C

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	159	ASN	A [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S [✓]

NAME: Japan Society of Air Pollution

Taiki Osen Kenkyu Zenkoku Kyogikai

ACRONYM:

See also JA-158; 021; 329

ADDRESS:
c/o Kokuritsu Koshu Eisei-in
4-6-1 Shiroganedai
Minato-ku, Tokyo

Tel: (03) 441-7111

AFFIL:

Title	PERSONNEL	Function
Dr.	K. Saito	President
Dr.	Takeo Suzuki	General Secretary

AP aims and actions:

Development of research towards the control of pollution in Japan.

One annual conference, quarterly publications of Journals and bimonthly publication of news.

Organization of Committees, related to air pollution.

Comments:

Journal (Taiki Osen Kenkyu)
1966/3 nospa/140p/B5/nfs/Jap/Non/B1

News (Taiki Osen Nyusu)
1960/bm/10p/B5/nfs/Jap/Non/B1,B2

A complete listing of societies and associations identified as pertinent to air pollution control activities in Japan is given below, for serial numbers JA 159 through JA 229. Cards are also given for specific organizations as noted in this list where more detailed information was available.

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 159 (Card)	Japan Society of Air Pollution Taiki Osen Kenkyu Zenkoku Kyogikai 1-4-6 Shiroganedai Minato-ku, Tokyo	- Journal (Taiki Osen Kenkyu); 1966/3nospa/140p/B5/nfs/Jap/Non/B1 - News (Taiki Osen Nyusu) 1960/bm/10p/B5/nfs/Jap/Non/B1, B2
JA 160	Japanese Air Cleaning Association Nihon Kuki Seiji Kyokai	- Air Cleaning (Kuki Seiji) 1964/q/70p/B5/nfs/Jap/Non/A,C,D
JA 161 (Card)	Industrial Public Nuisance Control Assoc. Sangyo Kogai Boshi Kyokai 2-2-5, Kudan Minami, Chiyoda-ku, Tokyo	- Public Nuisance (Sangyo Kogai) 1965/m/65p/B5/¥200/Jap/Non/B1, C
JA 162	Environmental Sanitation Research Assoc. Kankyo Eisei Kenkyukai 3-3, Kanda Jinbo-cho, Chiyoda-ku, Tokyo	- Environmental Sanitation (Kankyo Eisei) 1954/m/55p/A5/¥100/Jap/Non/B1
JA 163 (Card)	Industrial Environmental Engineering Research Association Sangyo Kankyo Kogaku Kenkyukai 2-91, Hyakunin-cho, Shinjuku-ku Tokyo	- Industrial Environmental Engineering (Sangyo Kankyo Kogaku) 1961/m/65p/B5/¥600/Jap/Non/A, B1 - Annual Bulletin (Sangyo Kankyo Nenpo) 1964/a/300p/B5/ppv/Jap/Non/A, B1, C
JA 164	Japanese Association for Industrial Environmental Sanitation Zenkoku Rodo Eisei Kyokai 3-3 Moto-machi, Bunkyo-ku, Tokyo	
JA 165	Japan Society of Industrial Hygiene Nihon Rodo Eisei Kogakukai 2051 Rizuki, Sumiyoshi-cho, Kawasaki-shi, Kanagawa-ken	Journal (Rodo Eisei Kogaku) - Annual
JA 166	Japanese Association for Industrial Health 78 Hanazono, Shinjuku-ku, Tokyo	- Japanese Journal of Industrial Health (Sangyo Igaku) 1959/m/90p/B5/¥150/Jap/Sum(Europ)/A,B2
JA 167 (Card)	Industrial Medical Research Association Kodo Igaku Kenkyukai 3-5-2, Otsuka, Bunkyo-ku, Tokyo	

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 168 (Card)	Northern Occupational Health Association	- Journal (Hoppo Sangyo Eisei) 1938/q/70p/B5/nfs/Jap/Sum(Europ)/A
JA 169	Industrial Safety Association Chuo Rodo Saigai Boshi Kyokai 5-35-4, Shiba, Minato-ku Tokyo	- Japanese Journal of Industrial Hygiene (Rodo Eisei) 1960/m/65p/B5/¥100/Jap/Non/B1
JA 170	Japanese Health Physics Society Nihon Hoken Butsuri Kyogikai c/o Nihon Genshiryoku Kenkyusho Hoken Butsuri Anzen Kanri-bu, Tokai-mura, Naka-gun, Ibaragi-ken	- Journal (Hoken Butsuri) 1966/?/?/B5/?/Jap/Sum(Europ)/A, C - News (Nihon Hoken Butsuri Kyogikai Nyusu) ?/?/40p/B5/nfs/Jap/Non/B1, B2, C
JA 171	Japanese Society of Race Hygiene Nihon Minzoku Eisei Gakkai Seirigaku Kyoshitsu, c/o Tokyo Daigaku Igakubu 7-3-1, Hongo, Bunkyo-ku, Tokyo	- Human Ecology and Race Hygiene (Minzoku Eisei) 1931/bm/20p/B5/¥1,000 pa/Jap/Sum(Europ)/A
JA 172	Japanese Safety and Hygiene Council Nihon Anzen Eisei Kyokai 1-1, Kanaya-cho, Kita-ku, Osaka-shi	- Safety and Hygiene (Anzen Eisei) 1944/m/50p/B5/¥175/Jap/Non/B2
JA 173	Osaka City Institute of Hygiene Osaka Shiritsu Eisei Kenkyusho 38, Kita Ogi-machi, Kita-ku, Osaka-shi	- Journal (Seikatsu Eisei) 1957/bm/55p/B5/¥150/Jap/Non/B1
JA 174 (Card)	Japanese Society for Environment in Biology Nihon Seibutsu Kankyo Chosetsu Gakkai Nogyo Kogaku Kyoshitsu c/o Tokyo Daigaku Nogakubu Mukogaoka, Yayoi-cho, Bunkyo-ku, Tokyo	- Environmental Control in Biology (Seibutsu Kankyo Chosetsu) 1963/5a/60p/B5/¥1200/Jap/Sum(English)/TA

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 175	Japanese Society of Public Health Nihon Koshu Eisei Kyokai 78, Hanazono-cho, Shinjuku-ku, Tokyo	- Japanese Journal of Public Health (Nihon Koshu Eisei Zasshi) 1954/m/65p/B5/¥200/Jap/Sum(Europ)A,C
JA 176	Japanese Society for Hygiene Nihon Eisei Gakkai c/o Koshu Eiseigaku Kyoshitsu Igakubu Keio Daigaku, 35, Shinano-machi Shinjuku-ku, Tokyo	- Japanese Journal of Hygiene (Nihon Eiseigaku Zasshi) 1946/bm/60p/B5/nfs/Jap/Sum(Europ)/A
JA 177	Japanese Association for Preventive Medicine Nihon Yobo Igakkai Igakubu Eiseigaku Kyoshitsu, Kyoto Daigaku, Yoshida, Komoecho Sakyo-ku, Kyoto-shi, Kyoto-ken	- Japanese Journal of the Nation's Health (Kokumin Eisei) 1923/q/80p/B5/¥150/Jap/Non/A
JA 178	Japanese Broncho-Esophagological Society Nihon Kikan Shokudo Kagakkai c/o Keio Gijuku Daigaku Igakubu 35, Shinano-machi, Shinjuku-ku, Tokyo	- Journal (Nihon Kikan Shokudoka Gakkai Kaiho) 1950/q/50p/B5/¥250/Jap/Sum(Europ)/A
JA 179	Japanese Society for Chest Diseases Nihon Kyobu Shikkan Gakkai c/o Tokyo Daigaku Densenbyo Kenkyusho, Shiba Shirogane, Minato-ku, Tokyo	- Japanese Journal of Thoracic Diseases (Nihon Kyobu Shikkan Gakkai Zasshi) 1963/q/170p/B5/nfs/Jap/Sum(Europ)/A
JA 180	Japanese Society for Tuberculosis Nihon Kekkakubyo Gakkai c/o Kekkaku Yobokai 1-2-4, Kanda-Misaki-cho, Chiyoda-ku Tokyo	- Bulletin (Kekkaku) 1923/m/50p/B5/mem/Jap/Sum(Europ)/A
JA 181	Japanese Society of Allergy Nihon Allergy Gakkai (Arerugi) c/o Saikengaku Kyoshitsu Nihon Ika Daigaku, 1-1-5, Sendagi Bunkyo-ku, Tokyo	- Japanese Journal of Allergy (Arerugi) 1952/m/100p/B5/¥250/Jap/Sum(Jap, Europ)/A

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 182	Japanese Society of Internal Medicine Nihon Naika Gakkai 3-33-5, Hongo, Bunkyo-ku, Tokyo	- Journal (Nihon Naika Gakkai Zasshi) 1903/m/100p/B5/mem/Jap/Sum(Jap)/A
JA 183	Pharmaceutical Society of Japan Nihon Yakugakkai 1-1, Hongo, Bunkyo-ku, Tokyo	- Journal of Hygienic Chemistry (Eisei Kagaku) 1953/sa/20p/B5/¥550/Jap/Sum(Europ)/A
JA 184 (Card)	Medico-Legal Society of Japan Nihon Hoi Gakkai 5 - Chome, Nakauchi-cho, Yamashima-Misasagi, Higashiyama-ku Kyoto	- Japanese Journal of Legal Medicine (Nihon Hoigaku Zasshi) 1944/bm/85p/B5/¥2,000 pa/Jap/Sum(Europe)/A
JA 185 (Card)	Nara Medical Association Nara Igakkai c/o Nara-Kenritsu Ika Daigaku, Shijo-machi, Kashiwara-shi, Nara-ken	- Journal (Nara Igaku Zasshi) 1949/reg./120p/85/nfs/Jap, Europ/Sum(Europ)/A
JA 186	Societas Paediatrica Japonica Nihon Shonika Gakkai c/o Nihon Koshu Eisei Kyokai Bldg. 78, Hanazono-cho, Shinjuku-ku, Tokyo	- Acta Paediatrica Japonica (Nihon Shonika Gakkai Zasshi) 1895/m/90p/B5/¥125/Jap/Non/A.C - Acta Paediatrica Japonica, Overseas Edition 1959/sa/70p/B5/$2.00pa/Europ/Sum(Europ)/A
JA 187	Japanese Fruit Grower's Cooperative Assoc. Nihon Engei Nogyo Kyodo Kumiai Rengokai 4-14-1, Soto Kanda, Chiyoda-ku, Tokyo	- Japanese Fruits (Kajitsu Nihon) 1946/m/75p/B5/¥90/Jap/Non/B1, B2
JA 188	Japanese Phytopathological Society Nihon Shokubutsu Byori Gakkai c/o Norin-sho Nogyo Gijutsu Kenkyusho, Nishigahara, Kita-ku, Tokyo	- Annals (Nihon Shokubutsu Byori Gakkai-ho) 1918/5nospa/55p/B5/¥250/Jap,Europ/Sum(Europ)/A.C
JA 189	The Japanese Society for Horticultural Science -- Engei Gakkai c/o Tokyo Daigaku Nogakubu Engeigaku 1-1-1,Yayoi-cho, Bunkyo-ku, Tokyo	- Journal (Engei Gakkai Zasshi) 1925/q/100p/B5/¥500/Jap,Europ/Sum(Europ)/A.C

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 190	Association for Safety Engineering Anzen Kogaku Kyokai 5-69, Tokiwa-cho, Naka-ku, Yokohama-shi, Kanagawa-ken	- Safety Engineering (Anzen Kogaku) 1962/q/100p/B5/¥300/Jap/Sum/Jap/A, B1
JA 191	Central Association for Heat Engineering Chuo Netsu Kanri Kyogikai 8, Ichigaya, Kawada-cho, Shinjuku-ku, Tokyo	- Heat Engineering (Netsu Kanri) 1949/m/50p/B5/¥200/Jap/Non/A,B1,C
JA 192	Hokkaido Association for Heat Engineering Hokkaido Netsu Kanri Kyokai Nishi - 7 chome, Minami - 15 - jo, Sapporo-shi, Hokkaido	- Heat Engineering, Hokkaido (Netsu Kanri Hokkaido) 1949/irr/45p/B5/nfs/Jap/Non/B1
JA 193 (Card)	Japanese Institute of Industrial Engineering Nihon Indasutoriaru Enjiniaingu Kyokai c/o Seisansei Bldg. 1-18-5, Hachiman-dori, Shibuya-ku, Tokyo	- I E Review 1960/bm/65p/B5/nfs/Jap/Non/B1
JA 194	Japanese Society of Mechanical Engineers Nihon Kikai Gakkai c/o Nihon Kikaku Kyokai Bldg. 89, Akasaka, Hitotsugi-cho, Minato-ku, Tokyo	- Transactions (Nihon Kikai Gakkai Ronbunshu) 1935/m/160p/B5/pv/Jap/Non/A - Journal (Nihon Kikai Gakkai-shi) 1897/m/200p/B5/¥300/Jap/Non/A.C
JA 195	Kanto Association for Heat Engineering Kanto Netsu Kanri Kyokai 1-3, Kanda, Misaki-cho Chiyoda-ku, Tokyo	- Contamination Prevention and Heat Engineering (Osen Boshi to Netsu Kanri) 1952/m/40p/B5/¥100/Jap/Non/B1,C
JA 196	Kinki Association for Heat Engineering Kinki Netsu Kanri Kyokai c/o Ujiden Bldg., 164, Umegai-cho, Kita-ku, Osaka-shi	- Heat Engineering (Netsu Kanri Shiryo) 1948/irr/45p/B5/nfs/Jap/Non/B1

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 197	Society of Automotive Engineers of Japan, Inc. Jidosha Gijutsukai 11, Tameika, Akasaka, Minato-ku, Tokyo	- Journal (Jidosha Gijutsu) 1947/m/95p/B5/¥350/Jap/Sum(Jap, Europ)/A,B1, C
JA 198	Japan Society of Chemical Engineering Kagaku Kogagu Kyokai Kyoritsu Kaikan Bldg., 4-6-19, Kohinata, Bunkyo-ku, Tokyo	- Chemical Engineering, Japan (Kagaku Kogaku) 1937/m/80p/B5/¥300/Jap/Sum(Jap)/A,B1,C - Journal of Chemical Engineering of Japan (English Edition)
JA 199	Society of Civil Engineers, Japan Doboku Gakkai 1, Yotsuya, Shinjuku-ku, Tokyo	- Journal (Doboku Gakkai-shi) 1915/m/170p/B5/¥250/Jap/Non/A,B1,C
JA 200	Society of Heating, Air Conditioning and Sanitary Engineers Kuki Chowa, Eisei Kogakkai 2-9 Kyobashi, Chuo-ku, Tokyo	- Journal Kuki Chowa, Eisei Kogaku) 1917/m/100p/B5/¥300/Jap/Sum(Jap,Europ)/A,C - Transactions 1963/a/85p/B5/¥1,000pa/Europ/Sum(Europ)/A
JA 201	Society of Instrument and Control Engineers Keisoku Jidoseigno Gakkai c/o Keisoku Kaikan, 20, Shiba Kotohira-cho, Minato-ku, Tokyo	- Journal (Keisoku to Seigyo) 1962/m/55p/B5/¥240/Jap/Sum(Europ)/A,B1,C - Transactions (Keisoku Jidoseigyo Gakkai Ronbunshu) 1965/q/90p/A4/¥600/Europ/Sum(Europ)/A
JA 202	Society of Thermal Power Engineers of Japan Karyoku Hatsuden Gijutsu Kyokai 4-16, Akasaka, Aoyama Kita-machi Minato-ku, Tokyo	- Thermal Power (Karyoku Hatsuden) 1950/m/85p/B5/¥200/Jap/Non/A
JA 203	Applied Physics Society Oyo Butsuri Gakkai 1-20-8, Mukogaoka, Bunkyo-ku, Tokyo	- Applied Physics (Oyo Butsuri) 1932/m/75p/B5/¥250/Jap/Sum(Europ)/A
JA 204 (Card)	The Fuel Society of Japan Nenryo Kyokai 5-13 Ginza, 4 chome, Chuo-ku, Tokyo	- Journal (Nenryo Kyokai-shi) 1922/m/50p/B5/¥250/Jap/Sum(Europ)/A,C

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 205	Instrumentation Condrol Association Keiryo Kanri Kyokai c/o Nihon Keiryo Kaikan, 25-1 Nando-cho, Shinjuku-ku, Tokyo	- Journal (Keiryo Kanri, Keisoku Keiso) 1952/m/40p/B5/¥200/Jap/Non/B1
JA 206 (Card)	Architectural Institute of Japan Nihon Kenchi ku Gakkai 2-19, 3 chome Ginza Chuo-ku, Tokyo	
JA 207 (Card)	Japanese Atomic Energy Society Nihon Genshiryoku Gakki Nihon Genshiryoku Kenkyujo, 1-1-13, Shinbashi, Minato-ku, Tokyo	- Journal (Nihon Genshiryoku Gakkai-shi) 1959/m/70p/B5/¥200/Jap/Sum(Europ)/A,C Journal of Nuclear Science & Technology 1964/m/64p/B5/4200/Eng.
JA 208 (Card)	Chemical Society of Japan Nihon Kagaku Kai 1-5, Kanda Surugadai, Chiyoda-ku, Tokyo	- Chemistry and Chemical Industry (Kagaku to Kogyo) 1938/m/170 p/B5/¥160/Jap/Non/B1,C - Bulletin 1926/m/200p/B5/¥370/Europ/Sum(Europ)/A
JA 209 (Card)	Combustion Society of Japan Nihon Nensho Kenkyukai c/o Tokyo Daigaku Kogakubu Nenryo Kogaku Kyoshitsu, 7-3-1, Hongo, Bunkyo-ku, Tokyo	- Combustion Research (nensho Kenkyu) 1959/q/50p/B5/mem/Jap/Non/B1
JA 210	Japan Institute of Energy Economics Nihon Energi Keizai Kenkyusho 28, Shiba Nishikubo, Sakuragawa-cho, Minato-ku, Tokyo	- Journal (Nihon Enerugi Keizai Kenkyusho Shoho) 1966/bm/45p/B5/nfs/Jap/Non/B2, D
JA 211	Meteorological Society of Japan Nihor Kisha Gakkai Chiyoda-ku, Tokyo	- Weather (Tenki)(in Japanese) 1954/m/40p/B5/nfs/Jap/Sum(Jap)/A - Journal (Kisho Shushi) 1882/bm/50p/B5/nfs/Europ/Sum(Jap, Europ)/A - Meteorological Study Note (Kisho Kenkyu Noto) 1955/irr/180p/B5/¥720/Jap/Non/A

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 212 (Card)	Japan Society for Analytical Chemistry Nihon Bunseki Kagakukai 1-1-5, Hon-Machi, Shibuya-ku, Tokyo	- Analyst (Bunseki Kagaku) 1952/m/140/p/B5/¥300/Jap/Sum(Jap, Europ)/A.C
JA 213 (Card)	The Mining and Metallurgical Institute of Japan Nihon Kogyokai 4-5, Ginza, 8 chome Chuo-ku, Tokyo	- Journal (Nihon Kogyo Kaishi) 1885/m/100p/A4/¥300/Jap/Sum(Europ)/A,C
JA 214 (Card)	Kanto-Shinetsu Heat Control Society Central Association for Heat Management, Japan 9-17, 3 chome, Mejiro dai, Bunkyo-ku, Tokyo	
JA 215	Meteorological Association Kisho Kyokai 3-2, Kanda Nishiki-cho, Chiyoda-ku, Tokyo	- P.R. Meteo (Meteorological Association) (P.R. Meteo (Kisho Kyokai Dayori) 1965/m/3p/B5/nfs/Jap/Non/B2
JA 216	Research Association of Powder Technology Funtai Kogaku Kenkyukai c/o Nagoya Kogyo Gijutsu Shikenjo 1, Hirate-cho, Kiya-ku, Nagoya-shi, Aichi-ken	- Journal (Funtai Kogaku Kenkyukai-shi) 1964/3 nospa/80p/B5/nfs/Jap/Non/A, C
JA 217 (Card)	Association for Promotion of Chemical Industry Kagaku Kogyo Gijutsu Doyukai Shuppan-bu 1-9, Nihonbashi Edobashi Chuo-ku, Tokyo	- Japanese Chemical Industry (Nihon Kagaku Kogyo) 1953/m/50p/B5/¥150/Jap/Non/B1,B2
JA 218	Automotive Industries Association Jidosha Kogyakai 2-18, Marunouchi, Chiyoda-ku, Tokyo	
JA 219	Japanese Cement Association	Book - "Smoke and Dust Control in the Cement Industry" (Revised) ¥1000 (In Japanese) - Part of Book Series on Smoke and Dust Control Technology (Barien Shari Gijutsu Sosho)

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 220	Japan Coal Association Nihon Sekitan Kyokai Hibiyu Park Building 1-1, Yuraku-cho, Chiyoda-ku, Tokyo	- Bulletin (Sekitan Jiho) 1926/m/51p/B5/¥50/Jap/Non/B2, D
JA 221	Japanese Combustion Appliance Inspection Assoc. Nihon Nensho Kigu Keusa Kyokai 2-24-2 Higoshi, Shibuya-ku, Tokyo	
JA 222	The Japan Gas Association Nihon Gasukyokai 38, Shiba, Kotohira-cho, Minato-ku, Tokyo	- Journal (Nihon Gasu Kyokai-shi) 1948/m/70p/B5/¥150/Jap/Non/B1,B2,D
JA 223	Japanese Industrial Furnace Manufacturer's Association Nihon Kogyoro Kyokai 2-39-9, Nishi, Shinbashi, Minato-ku, Tokyo	- Industrial Heating (Kogyo Kanetsu) 1964/m/45p/B5/¥200/Jap/Non/B1, C
JA 224	Japanese Iron and Steel Federation Nihon Tekko Renmei c/o Tekko Bldg., 1-1 Marunouchi, Chiyoda-ku, Tokyo	- Journal of Labor Hygiene in Iron and Steel Industry (Tekko Rodo Eisei) 1951/q/50p/B5/¥80/Jap/Sum(Europ)/A Book - "Smoke and Dust Control in the Iron and Steel Industry" - Vol.1 (¥1000); Vol.2 (¥ 800) (In Japanese)
JA 225	Japanese Mining Industry Association Nihon Kogyo Kyokai c/o Shin Hibiya Bldg. 2-3, Uchisaiwai-cho, Chiyoda-ku, Tokyo	- Bulletin (Kozau) 1948/m/50p/B5/¥100/Jap/Non/B1, D Book - "Smoke and Dust Control in the non-ferrous metal Industry" - In Press (In Japanese)
JA 226	Japanese Petroleum Institute Sekiyu Gakkai c/o Nisseki Bldg., 3-4, Marunouchi, Chiyoda-ku, Tokyo	- Bulletin - 1959/a/100p/A4/¥250/Europ/Sum(Europ)/A,C,D Journal - (Sekiyu Gakkai-shi) 1958/m/80p/A4/¥250/Jap/Sum(Europ)/A,B1,C,D Book - "Smoke and Dust Control in the Petroleum Industry" ¥2800 (In Japanese)

SOCIETIES AND ASSOCIATIONS

No.	Name/Address	Publications
JA 227	Japanese Power Association Nihon Doryoku Kyokai 1-7-13, Nishi Shinbashi, Minato-ku.	- Power (Journal of the Japanese Power Assn.) (Doryoku-Nihon Doryoku Kyokai Kaiho) 1951/sm/45p/B5/nfs/Jap/Non/B1,D
JA 228	Petrochemical Association Sekiyu Kagaku Kogyokai 2-22, Uchisai wai-cho, chiyoda-ku, Tokyo	Book - "Smoke and Dust Control in the Petrochemical Industry" - In Press (In Japanese)
JA 229	Sulfuric Acid Association Ryusan Kyokai Shinbashi Ekimae Bldg. Minato-ku, Tokyo	- Journal (Ryusan) 1948/m/40p/B5/nfs/Jap/Sum(Europ)/A,C,D

JA	161	ASN	A	~~B~~	C	D	E	~~F~~	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	~~L~~	M	S	~~1~~	2	3	1969		/	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Industrial Public Nuisance Control Association

Sangyo Kogai Boshi Kyokai

ACRONYM:

See also JA-162;163;164;335

ADDRESS:

2-2-5, Kudan Minami
Chiyoda-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
	B. Shindo	President
	S. Kasuga H. Fujii T. Shirasawa	Vice President
	T. Asakawa T. Nakano	Managing Director

AP aims and actions:

Development of Techniques on the control of public nuisances; fundamental research on the prevention of public nuisances.

Comments:

Public Nuisance (Sangyo Kogai)
1965/m/65p/B/¥200/Jap/Non/Bl,C

JA 161

Book: "Commentary on the Air Pollution and Noise Control Laws" (Taiki Osen Boshi Ho, So-on Kisei Ho no Kaisetsu) - authorized by Ministries of International Trade and Industry, and of Health and Welfare - ¥500 (In Japanese).

Book: "Summary of development and finance proceedures for construction of Public Nuisance Prevention facilities" (Sangyo Kogai Boshi Shisetsu Ni Taisaru Kinju Josei Seido no Geiyo) - authorized by Ministries of International Trade and Industry, and of Health and Welfare - ¥500 (In Japanese)

JA	163	ASN	A ✓ C D E ✓	01 02 03 04 05	✓ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ✓ S	✓ 2 3	1969	,	✓ T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Industrial Environmental Engineering Research Association

Sangyo Kankyo Kogaku Kenkyukai

ACRONYM:

See also JA-161;162;164;335

ADDRESS:

2-91, Hyakunin-cho, Shinjuku-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function

PERSONNEL	PLANNING COMMITTEE
K. Linoya	Kyoto Univ. Faculty of Engineering
H. Katsunuma	Tokyo Univ. Faculty of Medicine
K. Kamei	Nihon Univ. Faculty of Engineering
R. Kiyoura	Tokyo Inst. of Technology
M. Shoji	Kansai Univ. Faculty of Engineering
H. Takeyama	Tokyo Univ. Faculty of Eng.
M. Terabe	Inst. of Hygienic Sciences, Kawasaki
Y. Takashima	Tokyo Inst. of Technology

Comments:

Industrial Environmental Engineering (Sangyo Kankyo Kogaku) 1961/m/65p/B/5/¥600/Jap/Non/A,B1

Annual Bulletin (Sangyo Kankyo Nenpo) 1964/a/300p/B5/ppr/Jap/Non/A,B1,C

JA	167	ASN	A ✓ C D E F	01 02 03 04 05	✓ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	✓ M S	1 ✓ 3	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Industrial Medical Research Association

Rodo Igaku Kenkyu Kai

ACRONYM:

See also JA-165; 166

ADDRESS:

3-5-2, Otsuka, Bunkyo-ku,
Tokyo

Tel.: 03-946-6651

AFFIL:

Occupational Medical Research Association

Title	PERSONNEL	Function
Dr.	Seisaku Kikuchi	

AP aims and actions:

(a) Administration Department.
(b) The Medical Clinics Department.
(c) The Department for Research on tuberculosis among workers.
(d) The Research Council on tuberculosis among workers.
(e) The Council on Occupational Medical Research.
(f) The Training Institute for Occupational Medicine.

Comments:

To engage in research and also give medical guidance concerning tuberculosis and other diseases among factories and office workers.

JA	168	ASN	A [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 2 [✓ 3]	1969	S T I
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Northern Occupational Health Association

Hoppo Sangyo Eisei Kyokai

ACRONYM:

See also JA-256

ADDRESS:
c/o Hokkaido Daigaku Igakubu Koshu
Eiseigaku Kyoshitsu, Nishi - 5- chome,
Kita - 12 - jo, Sapporo-shi, Hokkaido

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Iwanezawa	President

AP aims and actions:

Industrial Health
Pollution of the Atmosphere

Comments:

Journal (Hoppo Sangyo Eisei)
1938/q/70p/B5/nfs/Jap/Sum(Europ)/A

JA	174	ASN	A [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 [illegible]	[illegible] 32 33 34 35	[✓ L] M S	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Japanese Society for Environment in Biology

Nihon Seibutsu Kankyo Chosetsu Gakkai

ACRONYM:

See also JA-307

ADDRESS:

c/o Tokyo Daigaku Nogakubu Nogyo Kogaku
Kyoshitsu Mukogaoka, Yayoi-cho,
Bunkyo-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Makoto Kandotsi	President
Dr.	Jiro Sugi	Vice President

AP aims and actions:

Comments:

Environmental Control in Biology
(Seibutsu Kankyo Chosetsu)
1963/5a/60p/B5/¥1200/Jap/Sum
(English)/TA/

JA	184	ASN	A [✓] C D E [✓]	01 02 03 04 05	[✓] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓] M S	1 [✓] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Medico-Legal Society of Japan

Nihon Hoi Gakkai

ACRONYM:

See also JA-307

ADDRESS:

5 - Chome, Nakauchi-cho,
Yamashina-Misasagi, Higashi-
yama-ku, Kyoto

Tel.:

AFFIL.:

Title	PERSONNEL	Function
	Fukujiro Fujikawa	Prof.
	Kunio Hirai	Prof.
	Teruhisa Hirayama	Assistant
	Mitsuo Fujii	Assistant

AP aims and actions:

Aims: To investigate legal medicine and to promote its prevalence.

Action: To promote mutual understanding and exchange of information.

Comments:

Japanese Journal of Legal Medicine
(Nihon Hoigaku Zasshi)
1944/bm/85p/B5/¥2,000 pa/Jap/Sum
(Europe)/A

JA 184

Research Areas: Influence of air pollution on metal and dyed cloths, etc.

Comments: The influences of air pollution on some cultural assets.

(1) On the air pollutional measurement by the filter paper method and the influence of air pollution on metallic luster. The journal of hygienic chemistry 15 (6) 377-387 (1969). The influence of air pollution on some cultural assets.

(2) The influence of air pollution upon the dyed cloths. The journal of hygenic chemistry 16 (2) 96-100 (1970).

JA	185	ASN	A ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Nara Medical Association

Nara Igakkai

ACRONYM:

See also

ADDRESS: (Nara Prefectural Medical College)
c/o Nara-Kenritsu Ika Daigaku
Shijo-machi, Kashiwara-shi
Nara-Ken
Tel.:

AFFIL: Nara Prefectural Medical Univ.

Title	PERSONNEL	Function
	Junichi Ogata	Chairman

AP aims and actions:

Comments:

Journal (Nara Igaku Zasshi)
1949/reg/120p/B5/nfs/Jap, Europ/
Sum (Europ)/A

The Journal of Nara Medical
Association

JA	193	ASN	A ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 2 ~~3~~	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Japanese Institute of Industrial Engineering

Nihon Indasutoriaru Enjiniaingu Kyokai

ACRONYM:

See also JA-194

ADDRESS:
c/o Seisansei Bldg.
1-18-5, Hachiman-dori
Shibuya-ku, Tokyo
Tel.:

AFFIL:

Title	PERSONNEL	Function
Pres.	Toshio Doko	Tokyo Shibauro Electric Co. Ltd. President
Gen.Sec.	Itoku Yamada	JIIE (The Japanese Institute of Industrial Engineering)

AP aims and actions:

Research Studies on Industrial Engineering and collection of Technical papers.,

Comments:

I.E. Review
1960/bm/65p/B5/nfs/Jap/Non/B1

JA	204	ASN	A [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: The Fuel Society of Japan

Nenryo Kyokai

JA-209;210;220;221;

See also 353;222;226

ADDRESS:

5-13 Ginza,4 chome
Chuo-ku, Tokyo

Tel.: (561)3760

AFFIL:

Title	PERSONNEL	Function
Mr.	Arimasa Baba	Chairman

AP aims and actions:

Research connected with energy resources and industrial fuels. Development of new techniques in the application of modern techniques.

Comments:

Journal (Nenryo Kyokai-shi)
1922/m/50p/B5/¥250/Jap/Sum
(Europ)/A.C

JA	206	ASN	A [✓ B] C D E [✓ F]	01 [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 [✓ 3]	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Architectural Institute of Japan

Nihon Kenchiku Gakkai

ACRONYM:

See also JA-199

ADDRESS:

2-19 - 3 chome Ginza
Chuo-ku
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Toshio Maeda	President
Dr.	Morio Takeuchi	Vice President
Dr.	Kazuo Ono	"
Dr.	Hajime Umemura	"

AP aims and actions:

Scientific organization devoted towards the advancement and development of science, technique and art of architecture.

Members from public and private universities research institutions as well as those from designing, construction, production and governmental administration, cooperate and enlighten each other through investigation and research.

Comments:

Journal of Architecture and Building Science (monthly).

JA	207	ASN	A ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Japanese Atomic Energy Society
Nihon Genshiryoku Gakkai

ACRONYM:
See also JA-170;203;360

ADDRESS:
c/o Nihon Genshiryoku
Kenkyujo, 1-1-13, Shinbashi
Minato-Ku, Tokyo
Tel.:
AFFIL:

Title	PERSONNEL	Function
	This is a corporate judiciary society with a membership of 3800.	

AP aims and actions:

Annual and sectional meetings,20 special committees.

Comments:

Journal (Nihon Genshiryoku Gakkai-shi) 1959/m/70p/B5/¥200/Jap/Sum(Europ)/A.C

Journal of Nuclear Science & Technology 1964/m/64p/B5/4200/Eng.

JA	208	ASN	A ~~B~~ C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Chemical Society of Japan
Nihon Kagakui Kai

ACRONYM:
See also JA-183;212;198

ADDRESS:

1-5, Kanda Surugadai
Chiyoda-Ku, Tokyo
Tel.: 03-292-6161
AFFIL:

Title	PERSONNEL	Function
Prof.Dr.	Yoshitoshi Oyama	President

AP aims and actions:

Comments:

Chemistry and Chemical Industry (Kagaku to Kogyo) 1948/m/170p/B5/¥160/Jap/Non/B1,C

Bulletin
1926/m/200p/B5/¥370/Europ/Sum (Europ)/A

JA	209	ASN	A	/	C	D	E	/	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	/	33	34	35	/	M	S	1	/	3	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Combustion Society of Japan

Nihon Nensho Kenkyukai

JA-204;220;221;222;

See also 353;308;226

ADDRESS:

c/o Tokyo Daigaku Koga Kubu Nenvyo
Kogaku Kyoshitsu
7-3-1, Hongo, Bunkyo-ku,
Tokyo

Tel.:

AFFIL: c/o Faculty of Engineering
University of Tokyo
Bunkyo-Ku, Tokyo

Title	PERSONNEL	Function
Dr.	Tsutomu Hikita	Prof. of Combustion Chemistry - University of Tokyo Chairman

AP aims and actions:

A group of combustion research scientists and engineers totalling 280 carry out several discussion meetings and annual symposium a year. Publication of "Combustion Research" 3-4 issues a year.

Comments:

Combustion Research (Nensho Kenkyu)
1959/q/50p/B5/mem/Jap/Non/B1

JA	212	ASN	A	/	C	D	E	/	01	02	03	04	05	11	12	13	14	15	21	/	23	24	25	31	32	33	34	35	/	M	S	/	2	3	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Japan Society for Analytical Chemistry

Nihon Bunseki Kagakukai

ACRONYM:

See also JA-198;208;217

ADDRESS:

1-1-5, Hon-machi, Shibuya-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Y. Nagasawa	President
Dr.	S. Yunagisawa	Vice-President
Dr.	S. Muto	"
Dr.	K. Yamasaki	"

AP aims and actions:

To make progress AP analytical chemistry, measurement technique and air chemistry. Holding study meeting bimonthly, lecture meeting, proposing investigations and study, and publishing books and reports.

Comments:

Analyst (Bunseki Kagaku)
1952/m/140p/B5/¥300/Jap/Sum(Jap, Europ)/A.C

JA	213	ASN	A ~~B~~ C D E ~~F~~	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: The Mining and Metallurgical Institute of Japan

Nihon Kogyokai

ACRONYM:

See also JA-220;225;223

ADDRESS:
4-5, Ginza
8 chome, Chuo-ku,
Tokyo

Tel.: 03-572-5091

AFFIL:

Title	PERSONNEL	Function
Dr.	Yataro Shimomura	President

AP aims and actions:

Contribution to the promotion in mining industry and eventually to the development of business and civilization.

Comments:

Journal (Nihon Kogyo Kaishi)
1885/m/100p/A4/¥300/Jap/Sum(Europ)/
A.C

JA	214	ASN	A ~~B~~ C D E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L ~~M~~ S	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kanto-Shinetsu Heat Control Society

Central Association for Heat Management, Japan

ACRONYM:

See also JA-191;192;195;196

ADDRESS:
No.9-17, 3 chome, Nejiro Kai
Bunkyo-ku, Tokyo

Tel.: (262) 4939

AFFIL:

Title	PERSONNEL	Function
	Takahide Taga	Director

AP aims and actions:

To investigate research on fuels, combustion and equipment, instruments and materials concerned, to bring up heat technicians and spread techniques to promote heat utilization efficiency under the condition of inhibiting air and water pollutions at sources.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	217	ASN	A ~~B~~ C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	1969		S T

NAME: Association for Promotion of Chemical Industry

Kagaku Kogyo Gijutsu Doyukai Shuppan-bu

ACRONYM:

See also JA-208;198;360;344;345

ADDRESS:
1-9, Nihonbashi Edobashi,
Chuo-ku, Tokyo

Tel.: (271)-1922

AFFIL:

Title	PERSONNEL	Function
Dr.Prof.	Shunichi Uchida	Chairman
	Riusaka Adachi	Secretary General

AP aims and actions:

Established Industrial Effluents Association with a view to control industrial pollution and enhance research on treatment of effluents. We work in colloboration with Tokyo Metropolitan Office in an administrative capacity.

Comments:

Japanese Chemical Industry
(Nihon Kagaku Kogyo)
1953/m/50p/B5/¥150/Jap/Non/B1,B2

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	230	IND	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T

NAME: Central Research Institute of Electro Power Industry, Agricultural Lab.

Denryoku Chuo Kenkyusho Noden Kenkyusho

ACRONYM:

See also JA-231;232;233

ADDRESS:
Abiko-machi, Higashi
Katsushika-gun,
Chiba-ken

Tel.: 0471-82-1181

AFFIL:

Title	PERSONNEL	Function
Dr.Agr.	I. Watanabe	Director
Dr. Sc.	S. Nakatani	Manager
Dr. Sc.	H. Ishikawa	
Mr.	T. Fujiwara	

AP aims and actions:

Research on plant injury by air pollutants.

Comments:
Journal of Agricultural Laboratory
(Noden Kenkyusho Shoho)

1961/a/160p/B5/nfs/Jap/Sum(Jap. Europ)/A

JA	231	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central Research Institute of Electric Power Industry, Temachi Institute

Denryoku Chuo Kenkyusho ote-machi Kenkyusho

ACRONYM:

See also JA-230; 232; 233

ADDRESS:

1-6 ote-machi, chiyoda-ku
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Reports (Denryoku Chuo Kenkyusho ote-machi kenkyusho Kenkyu Hokoku)
1966/a/380p/B5/nfs/Jap/Non/B

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	232	IND	✓ B C ✓ E ✓	01 02 03 04 05	11 12 13 14 15	21 22 23 ✓ 25	✓ ✓ ✓ 34 35	✓ M S	✓ 2 3	1969		✓ ✓

NAME: Central Research Institute of Electric Power Industry, No.1 Technical Laboratory, Denryoku Chuo Kenkyusho, Gijutsu Dai-ichi Kenkyusho

ACRONYM:

See also JA-230;231;233

ADDRESS:
1229, Iwato, Komae-machi,
Kitatama-gun, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Tadao Otsuka	Manager, Chem. Dept.
	Hajime Takenouchi	Manager, Thermal Power Plant Dept.
	Hironori Ohno	Supervisor, Physics Section

AP aims and actions:

Chemistry Department - Development of flue gas and flue oil desulphurization processes; Limestone Injection for SO_2 removal. Plume tracing technique with fluorescent particle, sulphate hexafluoride and freon-12.

Thermal Power plant department - Wind Tunnel Diffusion Analysis; Turbulence Analysis and electric precipitator efficiency analysis. Physics Section - Plume tracing technique with cobalt sulphate.

Comments:

Reports (Denryoku Chuo Kenkyusho Gijutsu Daiich Kenkyusho Hokoku)

Research Equipment: Wind tunnel for stack gas diffusion, Small combustion test rig, Experimental apparatus for sulfur dioxide removal from flue gas, Experimental apparatus for heavy oil hydor-desulfurization.

JA 232

Additional Personnel

M. Homma
K. Hoshizawa
Y. Ishihara
H. Koyama
Y. Hasegawa
H. Ohno
T. Senshu
T. Mizuochi
H. Kurosawa
T. Sema
S. Takagi
T. Tomizawa
J. Suzuki
M. Suzuki
H. Shikata
H. Nakasa
T. Nagayama
O. Mizuochi
R. Komabayashi
K. Endo
M. Koizumi
S. Kakishima
K. Koyata
H. Matsda
T. Ono
T. Yatabe
O. Shimoda
T. Sonoda

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	233	IND	~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	~~31~~ ~~32~~ ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	1969	S T

NAME: Research Committee for Air Pollution Control of the Central Research Institute of Electric Power Industry

ACRONYM:

See also JA-230; 231; 232

ADDRESS:

1-4, ote-machi, Chiyoda-ku
Tokyo
Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	M. Sekimoto	Chief of Committee

AP aims and actions:

Directs air pollution activities of the Technical, Research, and Agricultural Laboratories of the Institute.

COMPOSITION:

9 from Power Companies
1 from Ministry of International Trade and Industry
1 from Electric Power Enterprise Association
1 from Central Electric Power Conference
1 from Central Research Institutes of the Electric Power Industry

Comments:

JA 233

RESEARCH COMMITTEE FOR AIR POLLUTION CONTROL

In view of increasing public nuisance by air pollution, the Research Committee for Air Pollution Control was organized in 1964, in cooperation with the electric power companies in Japan.

The purpose of this Committee is to prepare a research project for prevention of air pollution, and to promote the necessary technical work.

Main Subjects of Research:

1. Hydrodesulfurization of crude oil.
2. Microbial desulfurization of petroleum.
3. Blending of oils to lower sulfur content.
4. Prevention of acid-smut from oil-fired power station.
5. Removal of SO_2 from flue gas with pulverized limestone.
6. Atmospheric diffusion of stack gas from power station.
7. Influence of SO_2 and SO_3 on plant life.

Researches regarding No. 1, 3, 4, 5, 6 are being carried out at the Technical Laboratory and No.2, 7 at the Agricultural Laboratory.

JA	234	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 [✓ 24] 25	31 32 [✓ 33] 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Chubu Electric Power Co. Ltd.

Chubu Denryoku K.K

ACRONYM:

See also JA-238; 008

ADDRESS:
10-1, Higashi Shin-machi,
Higashi-ku, Nagoya-shi,
Aichi-ken

Tel.:

AFFIL: In pilot plant for sulfur oxide removal from flue gas - Mitsubishi Heavy Industries, Ltd. (Mitsubishi Jukogyo K.K.), 2-10, Marunouchi, Chiyoda-Ku, Tokyo (238)

Title	PERSONNEL	Function
	K. Kato	
	T. Inoue	
	Yukio Kubo	
	Osamu Kumazaki	
	Masayasu Mikihara	
	M. Miyakawa	
	Saburo Tazawa	
	H. Watanabe	
	Mazuo Watanobe	

AP aims and actions:

Research Areas: Plume tracing with halogenated compounds (sulfur hexafluoride); NO_2 and SO_2 measurement in air and stack gases; Particulate matter analysis by mass spectroscopy; Sulfur oxide removal from flue gas (Manganese oxide process) - at Yokkaichi #3 Unit of the Company.

Comments: ADDITIONAL PERSONNEL

Isamu Yamazaki

Memoirs (Chubu Denryoku K.K. Kenkyu Shiro) 1952/sa/ppv/B5/nfs/Jap/Sum (Jap)/A

Journal (Chubu Denryoku K.K. Shaho) 1951/m/35p/A5/nfs/Jap/Non/B2

JA	235	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Hitachi Company, Ltd.

Hitachi K.K.

ACRONYM:

See also

ADDRESS:
1-4, Marunouchi, Chiyodo-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Tamaki	
	Tamura	

AP aims and actions:

Research Areas: Activated carbon adsorption process for Sulfur Oxide removal from flue gas (Sponsor: Ministry of International Trade and Industry); Pilot Plant; Goi Plant, Tokyo Electric Co., Chiba-ken.

Address:		
Kinberu -	Koigakubo 1-280 Kokubunji City, Tokyo	
Osand -	Gorodani 1099, Ozenji Kawasaki City	
C. Onu -	Ote Machi 2-8, Chiyuda-ku Tokyo	
H. Yamada -	Saiwai-cho - 3-1-1 Hituchi City	

Comments:

Review (Hitachi Hyoron) 1919/m/150p/A4/¥150/Jap/Sum(Jap)/AC

Hitachi Review 1960/m/130p/A4/¥250/Europ/Non/B_1,B_2

JA	236	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Hitachi Shipbuilding and Engineering Company Ltd.
Hitachi Zosen K.K.

ACRONYM:

See also

ADDRESS:
60, Kitano-cho, Sakurajima,
Konohana-ku Osaka-shi

Tel.:

AFFIL:
Technical Research Laboratory

Title	PERSONNEL	Function
	Kamino, Miyogi	
	Omitsuka, Yosudo	

AP aims and actions:
Research Areas: Dry activated carbon process for sulfur oxide removal from flue gas.

Comments:
Technical Review (Hitachi Zosen Giho 1937/q/60p/A4/nfs/Jap/Sum (Jap,Europ)/A.C

JA	237	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ishikawajima Harima Heavy Industries Co. Ltd.
Ishikawajima Harima Jukogyo K.K.

ACRONYM:

See also JA-008

ADDRESS:
2-3, Fukagawa Toyosu
Kofo-ku, Tokyo

Tel.:

AFFIL:
Sponsor: Ministry of International Trade and Industry
(008)

Title	PERSONNEL	Function

AP aims and actions:
Research Areas: Catalytic Oxidation Process (Kiyoura) for removal of sulfur oxides from flue gas; Pilot Plant; Oomuta, Fukuoka-Ken jointly with Tokyo Shiboura Electric Co. (Tokyo Shiboura Denki K.K.) 72, Horikawa-cho, Kawasaki-shi, Kanagawa-Ken, Mitsui Toatso Chemicals Co. (Mitsui Toatso Kagaku K.K., 3-2-5, Kasumigaseki, Chiyoda-Ku, Tokyo, and Toyo Engineering Co.

Comments:
Engineering Review (Ishi Kawajima Harima Giho) 1938/bm/100p/A4/nfs/Jap/Sum(Jap, Europ)/A.B1

JA	238	IND	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	1969		~~S~~ T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Mitsubishi Heavy Industries, Ltd.
Mitsubishi Jukogyo K.K.

ACRONYM:

See also JA-008; 234

ADDRESS:
2-10, Marunouchi, 2 chome
Chiyoda-ku,
Tokyo

Tel.: 212-3111

AFFIL: Sponsor: Ministry of International Trade and Industry
(008)

Title	PERSONNEL	Function
	Atsukawa	
	Uno	
	Higashi	
	Kamei	

AP aims and actions: Research Areas: Manganese Oxide process for sulfur oxide removal from flue gas - Pilot plant; Yokkaichi #3 unit, Chubu Electric Power Co. Ltd. (Chubu Denryoku K.K.) 10-1, Higashi Shin-machi, Higashi-ku, Nagoya-shi, Aichi-ken

M.H.I. Review
1964/irr/32p/B5/nfs/Europ/Non/B1,B2
Mitsubishi Technical Review
1962/irr/20p/A4/nfs/Jap.Europ/Sum(Europ)/A.C
The Mitsubishi Heavy Industries Bulletin (Mitsubishi Juko) 1965/irr/40p/B5/nfs/Jap/Non/B2

Comments:

Technical Review, Mitsubishi Heavy Industries, Ltd. 1964/3nospa/80p/A4/nfs/Europ/Sum(Europ)/A,B1,C
The Mitsubishi Technical Review (Mitsubishi Juko Giho) 1964/bm/100p/A4/#150/Jap/Sum(Europ)/A,B1,B2,C

JA	239	IND	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Nihon Kokan Company
Nihon Kokan K.K.

ACRONYM:

See also JA-110

ADDRESS:
1-2, Ote-machi, Chiyoda-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Nakagawa	
	Tsudo	
	Kishi	
	Satake	

AP aims and actions:

Research Areas: Wet limestone suspension solution process for sulfur oxide removal from flue gas.
Wet Agna Ammonium Process (Jointly with Industrial Research Institute of Kanagawa Prefecture.)

Comments:

Technical Report (Nihon Kokan Giho)
1955/a/140p/B5/nfs/Jap/Sum(Europ)/A

JA	240	IND	[✓ A] B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Showa Electric Power Company

Showa Hatsudan K.K.

ACRONYM:

See also

ADDRESS:
34, Shiba Miyamoto-cho,
Minato-ku, Tokyo

Tel.:

AFFIL: (1) Thermal Power Engineering Society of Japan.
(2) The Institute of Electrical Engineers of Japan (3) Central Association for Heat Management, Japan

Title	PERSONNEL	Function
Mr.	Yamanaka	Managing director
Mr.	Inde	Manager of the Technical Department

AP aims and actions:

Research Areas: 1) Wet Aqua Ammonium Process for sulfur oxide removal from flue gas
2) Dry active magnesia process for sulfur oxide removal from flue gas.

Comments:

(1) Tanaka, Inde and Nomura: "80,000 Nm^3/h wet process for sulfur oxide removal from flue gas" The Thermal Power, Vol.18, No.12-1 (Dec.1967)
(2) Tanaka and Inde: "A method of stack gas desulfurization of wet system" Heat Management. Vol. 19, No.12-13 (Dec.1967)

JA	241	SOC	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kanagawa Prefectural Air Pollution Control Sub Committee

Kanagawa-Ken Keihin Kogyo Chitai Taiki Osen Boshi Taisaku Gijutsu Shoiinkai

ACRONYM:

See also (Kanagawa-ken)

ADDRESS:
c/o Kanagawa-ken Kikaku Chosa-bu
Kogai-Ka, 1, Nihon-odori, Naka-ku
Yokohama-shi, Kanagawa-ken

Tel.:

AFFIL:
Kanagawa Prefectural
Public Nuisance Control Center
(100)

Title	PERSONNEL	Function
	Yui Shirane	Secretary
	Kiichi Yamashita	Secretary

AP aims and actions:

Comments:

Technical Reports (Kanagawa-Ken Taiki Osen Chosa Kenkyu Hokoku)
1957/a/100p/B5/nfs/Jap/Sum(Jap)/A

JA	242	SOC	/	B	C	D	E	F	01	02	03	04	05	/	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	/	1	2	/	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Oita Prefectural Medical Association

Committee for Research on Public Nuisance Control

ACRONYM:

See also JA-071; 136

ADDRESS:

6-23, Niajema Chi
Oita-shi, Oita-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Ichiro Hata	
	Toshiro Nakajima	
	Ryoichi Yano	

AP aims and actions:

Research Areas: Relationship between Air Pollution and Respiratory Disease

Comments:

JA	244	SOC	/	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	/	M	S	/	2	3	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Yokkaichi Area Air Pollution Control Committee

Yokkaichi Chiku Taiki Osen Taisaku Kyogi-Kai

ACRONYM:

See also JA-064;101;279-281

ADDRESS:

c/o Kogai-Ka, Mie-Kencho
13, Komei-cho, Tsu-shi,
Mie-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Yamamoto	Director

AP aims and actions:

Comments:

Jointly sponsored by Mie Prefecture and Yokkaichi City.

Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date		
JA	245	ACD	~~A~~	~~B~~	C	D	E	~~F~~	01	02	03	04	05	11	12	13	14	15	21	22	23	24	~~25~~	31	32	33	34	35	L	~~M~~	S	1	~~2~~	3	1969	S	T

NAME: Chiba University, Faculty of Engineering

Chiba Daigaku Kogakubu

See also JA-246; 045; 089; 098; 104

ADDRESS:

1-33, Yayoi-cho
Chiba-shi, Chiba - ken

Tel.: 0480-51-1111 (ext.) 2880

AFFIL:

Minister of Education

Title	PERSONNEL	Function
	Nobutoshi Horiuchi	
Dr.	Kazuyuki Sugita	
Dr.	Shin Suzuki	Prof.
	Yoshihisa Takase	

AP aims and actions:

Research Areas: Corrosion of metals by air pollution.
Photo-oxidation of SO_2.
Diffusion of pollutants into mist.

Comments:

Journal Chiba Daigaku
Kogakubu Kenkyu Hokoku)
1950/sa /ppv/B5/nfs/Jap/Sum
(Europ)/A

Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date		
JA	246	ACD	~~A~~	~~B~~	C	D	E	F	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	~~M~~	S	1	~~2~~	3	1969	S	T

NAME: Chiba University School of Medicine

Chiba Daigaku Igakubu

ACRONYM:

See also JA-245;045;089;098

ADDRESS:

313, Inohana-cho,
Chiba-shi, Chiba-ken

Tel.: 0472(22) 7171

AFFIL:

Title	PERSONNEL	Function
	Motoaki Adachi	
	Shigeru Funabashi	
	Kozo Ito	
	Seiji Kubo	
	Ken Motomiya	
	Suzuko Uehara	
	Ryo Yoshida	

AP aims and actions:

Research Areas: Effects of air pollution on school children.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	247	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	S	T

NAME: Chuo University, Faculty of Science and Engineering
Chuo Daigaku Rigogakuba

ACRONYM:

See also Tokyo

ADDRESS:
1-13-27, Kasuga, Bunkyo-ku
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Tsuneyuki Kemuro	Professor
	Shozo Kanamori	Research Associate

AP aims and actions:

Research Areas: Wind distribution analysis
Sampling and analysis of pollutants

Comments:
Bulletin (Chuo Daigaku Rigogakubu Kiyo) 1964/a/120p/B5/nfs/Jap/Non/A.C

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	248	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 2 ~~3~~	1969	S	T

NAME: Fukushima Medical College
Fukushima-Kenritsu Ika Daigaku

ACRONYM:

See also JA-049; 105

ADDRESS:
Sugitsuma-cho,
FuKushima-shi, FuKushima-ken

Tel.: (0245) 23-1111

AFFIL: Humio Tsunoda
Individual member of APCA, ISFR, JSAP, J.S. of Public Health; JS of Hygiene & JS of Industrial Medicine.

Title	PERSONNEL	Function
	Mikiko Haneda	Assistant
	Yoshio Tsuji	
M.D.	Humio Tsunoda	Associate Professor

AP aims and actions:

Research Areas: Fluoride levels in plants and the atmosphere
Air Pollution health effects
Air quality in the Joban Area
Effects of atmospheric fluoride pollution on human health
Effects of atmospheric sulphur dioxide on human health

Comments:
Fukushima Journal of Medical Science 1954/q/80p/B5/nfs/Europ/Sum (Europ)/A

JA	249	ACD	✓	✓	C	D	E	✓	01	02	03	04	05	11	✓	✓	14	15	21	✓	23	24	25	31	32	33	34	35	L	✓	S	1	2	✓	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Gifu Prefectural Medical College

Gifu-Kenritsu Ika Daigaku

See also JA-250; 108; 128; 143; 050; 135

ADDRESS:
40, Tsukasa-cho,
Gifu-shi, Gifu-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Y. Koyama	
	Motati	

AP aims and actions:

Research Areas: Air Pollution Surveys;
Relation ρf fluoride pollution to silkworm breeding.

Comments:

Acta Scholae Medicinalis in Gifu (Gifu Ika Daigaku Kiyo)
1953/bm/ppv/B5/nfs/Jap,Europ/Sum (Jap, Europ)/A

JA	250	ACD	✓	✓	C	D	E	F	01	02	03	04	05	11	✓	✓	14	15	21	22	23	24	25	31	32	33	34	35	L	✓	S	1	2	✓	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Gifu University, Faculty of Agriculture

Gifu Daigaku Nogakubu

See also JA-249; 050; 108; 128; 135; 143

ADDRESS:
Naka-machi
Kagamigahara-shi,
Gifu-ken

Tel.:

AFFIL: Member of Chemical Society of Japan - Member of Agricultural Society of Japan - Member of Pharmaceutical Society of Japan

Title	PERSONNEL	Function
Dr. of Agr.	H. Matsubara	Professor of Pesticide Chemistry

AP aims and actions:

Research Areas: Relation of fluoride pollution to silkworm breeding.

Comments:

Research Bulletin (Gifu Daigaku Nogakubu Kenkyn Hokoku)
1951/irr/200p/B5/nfs/Jap.Europ/Sum(Jap)/A

JA	251	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 ~~25~~	31 32 33 34 35	L ~~M~~ S	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Gumma University, Faculty of Engineering

Gumma Daigaku Kogakubu

ACRONYM:

See also JA-051

ADDRESS:

Hiyoshi-cho,
Maebashi-shi, Gumma-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Wataru Ando	

AP aims and actions:

Research Areas: Photo-oxidation of SO_2.

Comments:

JA	252	ACD	~~A~~ ~~B~~ C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Hiroshima University, Faculty of Medicine

Hiroshima Daigaku Igakubu

ACRONYM:

See also JA-052

ADDRESS:

1-2-3 Kasumi-cho,
Hiroshima-shi, Hiroshima-ken

Tel.: 51-1111

AFFIL:

Department of Public Health

Title	PERSONNEL	Function
M.D.	Hidenori Dodo	Associate Professor
	Hitoshi Hasegawa	Assistant

AP aims and actions:

Research Areas: Automotive exhaust pollution in Otake and Hiroshima cities.

We are studying air pollution and its effects on human health in Otake City, seit 1964, and automatic exhaust pollution in Hiroshima City, seit 1965.

Comments:

Journal (Obun Hiroshima Igaku) 1952/q/80p/B5/nfs/Europ/Sum (Europ)/A

JA	253	ACD	~~A~~	~~B~~	C	D	E	~~F~~	01	02	03	04	05	11	12	13	14	~~15~~	21	22	23	24	25	31	32	33	34	35	L	~~M~~	S	1	~~2~~	3	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: **Hitotsubashi University**

Hitotsubashi Daigaku

ACRONYM:

See also (Tokyo)

ADDRESS:

185, Kunitachi, Kitatama-gun
Kunitachi-shi, Tokyo-to

Tel.:

AFFIL.:

Economic Research Institute

Title	PERSONNEL	Function
	Y. Emi	
Prof.	S. Tsuru	

AP aims and actions:

Research Areas: Social Costs of Air Pollution.

Comments:

Journal of Arts and Sciences
1960/irr/80p/B5/¥600/Europ/Non/A

JA	254	ACD	~~A~~	~~B~~	C	D	E	~~F~~	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	~~M~~	S	1	~~2~~	3	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: **Hokkaido University Faculty of Agriculture**

Hokkaido Daigaku Nogakubu

ACRONYM:

See also (Hokkaido)

ADDRESS:

Nishi - 9 - chome, Kita - 9 - jo,
Sapporo-shi, Hokkaido

Tel.:

AFFIL.:

Title	PERSONNEL	Function
	Yataro Obata	

AP aims and actions:

Research Areas: Odors

Comments:

Memoirs (Hokkaido Daigaku
Nogakubu Hobun Kiyo)
1951/irr/80p/B5/nfs/Jap/Sum
(Europ)/A

JA	255	ACD	☒ ☒ C D E ☒	01 ☒ 03 04 05	11 12 13 14 15	21 22 23 24 25	☒ 32 33 34 35	☒ M S	☒ 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Hokkaido University Faculty of Engineering

Hokkaido Daigaku Kogakubu)

ACRONYM:

See also (Hokkaido)

ADDRESS:

Nishi - 8 - chome, Kita - 12 - jo,
Sapporo-shi, Hokkaido

Tel.:

AFFIL: See also:
Department of Sanitary Engineering
(257)

Title	PERSONNEL	Function
Prof.	K. Ibamoto	
Prof.	G. Horie	
Prof.	Takeshi Saito	
Prof.	G. Takeya	

AP aims and actions:

Research Areas: Fuels; District Heating; Architecture

Comments:

Memoirs

1926/irr/120p/B5/nfs/Europ/Sum (Europ)/A

JA	256	ACD	☒ ☒ C D E F	01 02 03 04 05	☒ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ☒ S	1 ☒ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Hokkaido University, Faculty of Medicine

Hokkaido Daigaku Igakubu

ACRONYM:

See also (Hokkaido)

ADDRESS:

Nishi - 7 - chome, Kita - 12 - jo,
Sapporo-shi, Hokkaido

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Sanshi Abe	
Dr.	Shinya Watanabe	

AP aims and actions:

Research Areas: Odor Measurement and response.
Human effect of Air Pollution.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	257	ACD	✓ ✓ C D E ✓	01 02 03 04 05	11 12 13 14 15	21 22 23 ✓ 25	31 32 33 34 35	✓ M S	✓ 2 3	1969	S	T

NAME: Hokkaido University, Department of Sanitary Engineering
(Hokkaido Daigaku Eisei Kogakubu)

ACRONYM:

See also (Hokkaido)

ADDRESS:
Nishi - 8 - Chome, Kita - 12 - jo,
Sapporo-shi, Hokkaido

Tel.:

AFFIL:
Faculty of Engineering

Title	PERSONNEL	Function
Prof.	Rikita Inoue	
Asst.Prof.	Heihaciro Yazawa	
	Yugi Watanabe	
	Akira Nakamura	
	Yasushi Ogawa	
	Tsuyoshi Yoshida	

AP aims and actions:

Research Areas: Diffusion of pollution
Physical and Mathematical Modeling of Transport and Diffusion
Evaluation of Air Pollution

Research Equipment: Wind Tunnel, water channel exposure test chamber.

Journal (Eisei Kogaku) 1956/a/50p/B5/nfs/Jap/Sum (Europ)/A

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	258	ACD	✓ ✓ C D E F	01 02 03 04 05	11 12 13 14 ✓	21 22 23 24 25	31 32 33 34 35	L M ✓	1 2 ✓	1969	S	T

NAME: Hokkaido University, Faculty of Sociology
Hokkaido Daigaku

ACRONYM:

See also (Hokkaido)

ADDRESS:
Nishi- 5 - chome, Kita - 12 - jo,
Sapporo-shi, Hokkaido

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	Kiyohide Seki	

AP aims and actions:

Research Areas: Social and Economic Effects of Air Pollution

Comments:

JA	259	ACD	✓ ✓ C D E ✓	01 02 03 04 05	11 ✓ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ✓	1 2 ✓	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kagawa University, Faculty of Agriculture
Kagawa Daigaku Nogakubu

ACRONYM:

See also 058

ADDRESS:
Miki-cho, Kida-gun
Kagawa-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Takahiko Tamaki	Professor
Bach.	Yutaka Umeda	Assistant Professor
Dr.	Musoki Uehara	Professor

AP aims and actions:

Research Areas: Effects of Air Pollution on P_h of Plant Cell Sap.

Comments:

Memoirs (Kagawa Daigaku Nogakubu Kiyo) 1955/irr/65p/B5/nfs/Jap.Europ/Sum(Jap,Europe)/A

Technical Bulletins (Kagawa Daigaku Nogakubu Gakujutsu Hokoku) 1949/a/80p/B5/nfs/Jap,Europ/Sum (Europ)/A

JA	260	ACD	✓ ✓ C D E ✓	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ✓	1 2 ✓	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kansai University, Faculty of Engineering
Kansai Daigaku Kogakubu

JA-290-296; 265;

See also See 073 for add'l

ADDRESS:
3-3-35, Yamatecho
Senriyama
Suita-shi, Osaka-Fu

Tel.: 061-388-1121

AFFIL:

Title	PERSONNEL	Function
Dr.	Hikaru Shaji	Prof. of Civil Engineering

AP aims and actions:

Research Area: Noise Control
Air Pollution Control Administration

Comments:

JA	261	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kanto-Gakuin University, Faculty of Engineering

Kanto GaKuin Daigaku Kogakubu

ACRONYM:

See also (Kanagawa-ken)

ADDRESS:

Uchikawa, Mutsuura-cho,
Kanazawa-ku, Yokohama-shi
Kanagawa-ken
Tel.: (045) 781-2001

AFFIL:

Title	PERSONNEL	Function
Dr.	Nobuo Mutoh	Prof. of Environmental Engineering

AP aims and actions:

Comments:

Journal (Kanto Gakuin Daigaku Kogakubu Kenkyu Hokoku) 1954/sa/100p/B5/nfs/Jap/Sum (Europ)/A

JA	262	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Keio University, Faculty of Medicine

Keio Gijuku Daigaku Igakubu

ACRONYM:

See also (Tokyo)

ADDRESS:

35, Shinano-machi, Shinjuku,
Tokyo
Tel.:

AFFIL:

Department of Preventive
Medicine and Public Health

Title	PERSONNEL	Function
Dr.	Kenzaburo Tsuchiya	Professor
Dr.	Toshio Toyama	Professor
Dr.	Masao Kusumoto	

AP aims and actions:

Research Areas: Epidemiology of Air Pollution, Aerosol Measurement

Comments:

Journal (Keio Igaku)
1921/bm/120p/B5/¥100/Jap/Sum (Europ)/A

Journal of Medicine
1952/q/55p/B5/$4.00 pa/Europ/Sum (Europ)/A

JA	263	ACD	/ / C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L / S	/ 2 3	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Keio University, Faculty of Medicine
Keio Gijuku Daigaku Igakubu

ACRONYM:
See also (Tokyo)

ADDRESS:
35, Shinano-machi, Shinjuku,
Tokyo

Tel.:

AFFIL:
Kita safo Memorial
Medical Library

Title	PERSONNEL	Function
	Yoshinori Tsuda	Librarian
	Tomiko Matsumura	Air Pollution Literature Specialist

AP aims and actions:

Research Areas: Documentation

Comments:

JA	264	ACD	/ / C D E /	01 02 03 04 05	11 12 13 14 15	21 / 23 24 25	31 32 33 34 35	L / S	1 / 3	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Keio University, Fujihara Memorial Faculty of Engineering
Keio Gijuku Daigaku Fujihara Kinen Koga Kubu

ACRONYM:
See also (Tokyo)

ADDRESS:
4-794, Maehara-cho
Koganei-shi, Tokyo-to

Tel.:

AFFIL:
Department of Chemistry

Title	PERSONNEL	Function
Dr.	Saburo Yanagisawa	Prof.
Dr.	Yoshikazu Hashimato	Asst. Prof.

AP aims and actions:

Research Areas: Analytical Chemistry of Pollutants

Comments:

Proceedings of the Fujihara Memorial
Faculty of Engineering
(Keio Gijuku Daigoku Fujihava Kiken
Koga Kubu Kenkyu Hokoku)
1948/q/20p/B5/nfs/Europ/Sum(Europ)/A

JA	265	ACD	/ / C D E /	01 02 03 / 05	11 12 13 14 15	21 22 23 24 25	31 32 / 34 35	L M /	1 2 /	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kinki University, Faculty of Science and Technology

Kinki Daigaku Rikogakubu

JA-260; 290-296

See also see 073 for add'l.

ADDRESS:

321, Kowakae
Higoshi Osaka-shi
Osaka-Fu

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Toru Ishino	Professor

AP aims and actions:

Research Areas: Control of Cupola emissions. Dust in foundries (mold dismantling shops, etc.)

Comments:

Journal (Kinki Daigaku Rikogakubu Kenkyu Hokoku
1966/a/200p/B5/nfs/Jap.Europ/Sum (Jap.Europ)/A

JA	267	ACD	/ / C D E /	01 02 03 04 05	/ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kurume University, Faculty of Medicine

Kurume Daigaku Iga Kubu

ACRONYM:

See also JA - 048; 117; 275-277

ADDRESS:

67, Asahi-machi
Kurume-shi, Fukuoka-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
M.D.	K. Akitake	Dept. of Public Health
Asst.Prof.	H. Matsumoto	"
Prof.	S. Yamaguchi	"
Asst.Prof.	H. Esaki	Dept. of Environmental Health

AP aims and actions:

Research Areas: Evaluation of odor; Contamination of hair by mercury in dustfall; the effects of air pollution on the health of residents.

Comments:

Kurume Medical Journal
1954/q/35p/B5/nfs/Europ/Sum (Europ)/A
Japan Air Cleaning Assoc.

JA	268	ACD	/ / C D E /	01 02 03 04 05	11 12 / 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kyoto College of Pharmacy
Kyoto Yakka Daigaku

See also JA-269 to 274; 063; 119; 132; 142

ADDRESS:
5 - chome, Nakauchi-machi
Yamashina Misasaoi Higashi Yamaka
Kyoyo-shi, Kyoto-Fu

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Fukujiro Fujikawa	Professor
Dr.	Kunio Hirai	"
	Teruhisa Hirayama	Asst. Professor
	Mitsuo Fuji	" "

AP aims and actions:

Research Areas: Effect of air pollution on textiles, stone and paint.

Comments:
Bulletin (Kyoto Yakka Daigaku Gakuha)
1953/a/60p/B5/nfs/Jap/Sum Europ)/A

JA	269	ACD	/ / C D E /	01 02 03 04 05	/ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kyoto Prefectural College of Medicine
Kyoto-furitsu Ika Daigaku

See also JA 268-274; 063;119; 132; 142

ADDRESS:
Hirokoji, Kawara-machi-dori
Kamikyo-ku, Kyoto-shi,
Kyoto-Fu

Tel.:

AFFIL:
Kyoto Prefectural Office

Title	PERSONNEL	Function
	Chentung Chen	
	Kazayu Okamoto	

AP aims and actions:

Research Areas: Effect of SO_2 and NO_2, and CO on rodents.

Comments:
Journal (Kyoto-furitsu/Ka Daigaku Zasshi)
1947/bm/100p/B5/¥200/Jap/Sum (Europ)/A

JA	270	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 [✓ 14] 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kyoto University, Faculty of Architecture

JA 268-274; 063; 119;
See also 132; 142

ADDRESS:

Yoshida Hon-machi, Sakyo-ku,
Kyoto-shi, Kyoto-Fu

Tel.: 075-771-8111

AFFIL:

Title	PERSONNEL	Function
Dr. Asst. Prof.	H. Mimura	City planning and housing

AP aims and actions:

Research Areas: Relation of Air Pollution to City Planning

Comments:

Land use, industrial location and building regulation.

JA	271	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 [✓ 34] 35	L [✓ M] S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kyoto University, Department of Chemical Engineering

Kyoto Daigaku Kogakubu

.JA 268-274; 063; 119;
See also 132; 142

ADDRESS:

Yoshida-hon-machi, Sakyo-ku
Kyoto-shi, Kyoto-Fu

Tel.:

AFFIL:

Kyoto University
Faculty of Engineering (273)

Title	PERSONNEL	Function
Prof.	Koichi Linoya	
Prof.	Naoya Yoshioka	

AP aims and actions:

Research Areas: Dust collectors; Aerosol Technology

Comments:

JA	272	ACD	/ / C D E /	01 02 03 04 05	11 12 13 14 15	21 / 23 24 25	31 32 33 34 35	L / S	1 / 3	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

063; 119;132

See also 142; 268-76

NAME: Kyoto University, Engineering Research Institute

Kyoto Daigaku, Kogaku Kenkyusho

ADDRESS:

Gokanosho Uji-shi
Kyoto-Fu
Japan

Tel.:

AFFIL:

Japan Soc. of Civil Engineers
Atomic Energy Society of Japan, etc.

Title	PERSONNEL	Function
Prof.	Kanji Takahashi	
	K. Nishida	

AP aims and actions:

Research Areas: Aerosol Atmospheric and Radioactive Analysis

Comments:

Bulletin (Kyoto Daigaku Kogaku Kenkyusho Iho) 1952/sa/55p /B5/nfs/Jap/Non/A.C

Technical Reports (Kyoto Daigaku Kogaku Kenkyusho Kenkyu Hokoku) 1951/sm/25p/B5/nfs/Europ/Sum (Europ)/A

JA	274	ACD	/ / C D E /	01 02 03 04 05	/ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

JA-177, JA 268-273;

See also 119; 132; 142; 063

NAME: Kyofo University, Faculty of Medicine

Kyoto Daigaku Igakubu

ADDRESS:

Yoshida Konoe-cho, Sakyo-ken
Kyoto-shi, Kyoto-Fu

Tel.:

AFFIL:

Institute for Research on Tuberculosis and Chest Diseases.

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Studies in Social Medicine (Shakai Igaku Kenkyu) irr.

JA	273	ACD	✓ ✓ C D E ✓	✓ 02 03 04 05	11 12 13 14 15	21 22 23 ✓ 25	31 32 ✓ 34 35	✓ M S	✓ 2 3	1969	✓ T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kyoto University, Faculty of Engineering
Kyoto Daigaku Kogakubu

JA-268-274; 119; 132;
See also 142; 063

ADDRESS:
Yoshida Hon-machi, Sakyo-ku
Kyoto-shi, Kyoto-Fu

Tel.:

AFFIL.:
Department of Sanitary Engineering

Title	PERSONNEL	Function
Prof.	Shigehisa Iwai	Chairman
	Tsuyoshi Denda	
	Masakaksu Hiraoka	
	Iori Hashimoto	
	Yuko Ikeda	
	Yoshinori Ishikawa	
	Masamoto K atsu	

AP aims and actions: Research Equipment: Wind Tunnel
Research Areas: Air pollution systems analysis; Control of SO_2 from Sulfuric Acid plants; Automotive driving modes; Diffusion Analysis; Modeling experiments in wind tunnels; Computer Control System for air pollution.

Comments:

JA 273

Additional Personnel:

Kenji Kawata
Masaaki Naito
Kaoru Nishida
Konosuke Nishida
Hikaru Shoji
Takeichiro Takamatsu

Tsuneo Tsukatani
Genyu Ueda
Takeo Yamamoto
Y. Sawaragi
Yasuharu Akagi

Engineering Research (Kyoto Daigaku Kogaku Kenkyu)
1930/a/150p/B5nfs/Jap/Non/C

Memoirs
1914/q/145p/B5/nfs/Europ/Sum(Europ)/A

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	275	ACD	/ / C D E /	01 02 03 04 05	11 12 13 14 15	21 / 23 24 25	31 32 / 34 35	L / S	1 / 3	1969		/ T

NAME: Kyushu Institute of Technology
Kyushu Kogyo Daigaku

ACRONYM:

See also JA-276;277;117; 048;267

ADDRESS:
Nakahara, Tobata-ku,
Kitakyushu-shi, Fukuoka-ken

Tel: 093-87-1931

AFFIL:
Ministry of Education

Title	PERSONNEL	Function
	T. Jotaki	
	K. Kinbara	Assistant

AP aims and actions:

Research Areas: Cyclone dust collectors; Errors in non-isokinetic sampling; composition of dustfall.
Pneumatic conveyor, etc.

Comments:

Engineering Bulletin (Kyushu Kogyo Daigaku Kenkyn Kogaku Hokoku)
1951/a/100p/85/nfs/Jap/Sum(Europ)/A

- Transactions of J.S.M.E.
- Journal of J.S.M.E.
- Journal of Research Association of Powder Technology

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	276	ACD	/ / C D E /	01 02 03 04 05	11 12 13 14 15	21 22 23 / 25	31 32 33 34 35	L / S	1 / 3	1969		S T

NAME: Kyushu University, Faculty of Agriculture
Kyushu Daigaku Nogakubu

048; 117;267

See also 275-7

ADDRESS:
Hakozaki
Fukuoka-shi, Fukuoka-ken

Tel:

AFFIL:

Title	PERSONNEL	Function
Dr.	K. Takada	Professor

AP aims and actions:

Research Areas: Meteorological Field Experiments

Comments:

"Turbulence in the Lowest Atmosphere" Bulletin of the Government Forest Experiment Station, No.58, 1933.

"On Roughness Length and Zero-Plane Displacement in the Wind Profile of the Lowest Air Layer", Journal Met.Soc. Japan, Vol 44, 1966.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	277	ACD	/ / C D E /	01 02 03 04 05	/ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L / S	1 / 3	1969		S T

NAME: Kyushu University, Faculty of Medicine
Kyushu Daigaku Igakubu

048; 117; 267;

See also JA-275; 276

ADDRESS:
1276, Katakasu
Fukuoka-shi, Fukuoka-ken

Tel.:

AFFIL: Department of Hygiene
Faculty of Medicine
Kyushu University

Title	PERSONNEL	Function
Asst.Prof	Noburu Ishinishi	
Asst.	Yoko Katori	
Instructor	Yasushi Kodama	
Instructor	Eizaburo Kunitake	

AP aims and actions:

Research Areas: Relationship between air pollution and Asthmatic Diseases among school children; Epidemiological Study of Effects of Air Pollution on Health; Incidence rates of Respiratory Diseases and Malignant Tumors; Carcinogenicity of polyneuclear hydrocarbons; Analytical Studies of Air Pollutants of the cities in Northern Kyushu.

Comments:

Additional Personnel -
Teiichi Oda
Namio Saruta
Masayuki Yamaguchi
Toshihiko Miyahara
Tokuo Nagayama

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	278	ACD	/ / C D E F	01 02 03 04 05	/ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L / S	1 / 3	1969		S T

NAME: Mie Prefectural University, Faculty of Medicine
Mie-Kenritsu Daigaku Igakubu

064; 101; 244

See also JA-279-281

ADDRESS:
100, Torii-cho,
Tsu-shi, Mie-ken

Tel.: 05928-8-3171

AFFIL:
Japan Soc. of Air Pollution
Japan Soc. of Public Health

Title	PERSONNEL	Function
B.S.	Masayoshi Kitabatake	Assistant
M.D.	Katsumi Yoshida	Professor

AP aims and actions:

Research Areas: Epidemiology and Physiology of Air Pollution in Yokkaichi

Comments:

Epidemiological Research of Health Effects in Yokkaichi. Relationship and its Mechanism of Air Pollution and Asthma.

JA	279	ACD	~~A~~	~~B~~	C	D	E	~~F~~	01	02	03	04	05	11	~~12~~	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Mie University, Faculty of Agriculture

Mie Daigaku Nogakubu

JA 278-281; 064; 101;

See also 244

ADDRESS:

Tsu-shi, Mie-ken
Kamihama cho

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Jiro Matsushima	

AP aims and actions:

Research Areas: Effect of SO_2 on citrus.

Comments:
Bulletin (Mie Daigaku Nogakubu Gakujutsu Hokoku)
1928/SA/110p/B5/nfs/Jap,Europ/Sum(Jap, Europ)/A

JA	280	ACD	~~A~~	~~B~~	C	D	E	~~F~~	01	02	03	04	05	11	12	13	14	15	21	~~22~~	23	24	25	31	32	33	34	35	L	M	~~S~~	1	~~2~~	3	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Mie University, Research Group for Public Nuisances

Mie Daigaku Kogai Mondai Kenkyukai

064; 101; 244

See also JA-278-281

ADDRESS:

c/o Mie Daigaku Seijigaku Kyoshitsu
Marunouchi Tono-machi
Kamikama-cho, Tsu-shi, Mie-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Kuzuo Muto	

AP aims and actions:

Comments:
Regional Development and Public Nuisance (Chiiki Kaihatsu to Sangyo Kogai)
1966/q/100p/BS/nfs/Jap/Non/B

JA	281	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Mie University, Research Institute of Industrial Medicine

Mie Daigaku Fuzoku Sangyo Igaku Kenkyusho

ACRONYM:

See also JA-278;279;280; 064;101;244

ADDRESS:

c/o Shiohama Byoin
1, Shiohama-cho,
Yokkaichi-shi, Mie-ken

Tel.:

Title	PERSONNEL	Function
	Moriko Fujita	
	Keika Hattori	
	Masayuki Imai	
	Hidehiko Oshima	

AP aims and actions:
Research Areas: Epidemiology and Physiology of Air Pollution in Yokkaichi

Comments:
"Studies on Diseases of the Respiratory organs caused by Air Pollution" - March 1968 - published by Public Nuisance and Disease Study Conference of Mie Prefecture-also involving Mie Prefectural University, Faculty of Medicine and Doctor's Association of Yokkaichi City. (in Japanese).

Comments:

JA	282	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Nagoya University, Faculty of Agriculture

Nagoya Daigaku Nogakubu

042; 088; 121; 133;

See also JA 283-285

ADDRESS:

Furo-cho, Chikusa-ku,
Nagoya-shi, Aichi-ken

Tel.:

AFFIL: Nagoya University Forests
* Forestry Dept.
** Agronomy Dept.
*** Ag. Chemistry Dept. (284)

Title	PERSONNEL	Function
* Dr.	Masaya Kadota	Trees
** Dr.	Masaharu Shimizu	Rice
*** M.S.	Toshiharu Takanashi	Rice
Dr.	Hirotumi Tanaka	Rice
Dr.	Michihiko Yatazawa	Crops

AP aims and actions:

Research Areas: Effects of SO_2 and fluoride on vegetation.

Comments:

JA	283	ACD	[✓] [✓] C D E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓] 34 35	L M [✓]	1 2 [✓]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Nagoya University, Faculty of Engineering

Nagoya Daigaku Kogakubu

042; 088; 121; 133;

See also JA 282- 285

ADDRESS:

Furo-cho, Chikusa-ku,
Nagoya-shi, Aichi-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	Takeuchi	

AP aims and actions:

Research Areas: Dry charcoal desulfurization process for flue gas.

Comments:

Memoirs (Nagoya Daigaku Kogakubu Kiyo) 1949/sa/125p/B5/nfs/Europ/Sum(Europ)/A

JA	284	ACD	[✓] [✓] C D E [✓]	01 02 03 04 05	11 [✓] 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Nagoya University, Forests

Nagoya Daigaku Nogakubu Fuzoku Enshurin

JA-282-285; 042; 088;

See also 121; 133

ADDRESS:

Furo Chyo, Chikusa-ku
Nagoya-shi
Aichi-Ken

Tel.:

AFFIL:

Nagoya University, Faculty of Agriculture (282)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Bulletin (Nagoya Daigaku Nogakubu Enshurin Hokoku) 1958/irr/55p/B5/nfs/Nap/Sum(Europ)/A

JA	285	ACD	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Nagoya University, Research Institute of Environmental Medicine (Nagoya Daigaku Kankyo Igaku Kenkyusho)

JA 282-284; 042; 088

See also 121; 133

ADDRESS:

Furo-cho, Chikusa-ku
Nagoya-shi, Aichi-ken

Tel.:

AFFIL:
Research Institute of Environmental
Medicine, Nagoya University

Title	PERSONNEL	Function
Prof.M.D.	Tsutomu Kashiwagi	Nervous system & sensory functions.
Prof.M.D.	Ichiro Ishihara	Metaborism & Endocri system.
Prof.M.D.	Kazuo Yamada	Circulatory & Respiratory Systems
Prof.M.D.	Ujihiro Murakami	Developmental Pathology
Prof.M.D.	Genyo Mitarai	Aerospace Physiology

AP aims and actions: No AP aims and no activities in this field.

PERSONNEL	FUNCTION
Asst.Prof. B.L. Sukeo Sugimoto	Aerospace Psycology
Asst.Prof. M.D. Akihiro Suzumura	ibid

Comments:

*Annual Report (Nagoya Daigaku Kankyo Igaku Kenkyusho Nenpo)
1949/a/150p/B5/nfs/Jap/Sum(Jap)/A
Annual Report
1954/a/75p/B5/nfs/Europ/Sum(Europ)/A

*No corresponding papers in this issue.

JA	286	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Nihon University, Engineering Research Institute
Nihon Daigaku Kogaku Kenkyusho

ACRONYM:

See also (Tokyo)

ADDRESS:

1-8, Kanda Surugadai
Chiyoda-ku, Tokyo

Tel.: Tokyo 293 - 3251

AFFIL: Member of the Japan Society of Mechanical Engineers and International Association for Hydraulic Research

Title	PERSONNEL	Function
Dr.	K. Ikemori	Prof. of fluid mechanics

AP aims and actions:

Research Areas: Cyclone Dust Collectors.
Pneumatic conveyance of powdered material.

Comments:

Journal (Nihon Daigaku Kogaku Kenkyusho Iho) 1950/irr/30p/B5/nfs/Jap/Sum(Europe)/A

Reports
1952/irr/ppv/B5/nfs/Europ/Sum(Europ)/A
Theoretical treatment of pneumatic conveyance of particulates and powdered materials through pipelines (J. Japan Society of Mecharical Engineers, Vol.72, No.611 (1969).

JA	287	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Nihon University,School of Medicine

Nihon Daigaku Igakubu

ACRONYM:

See also (Tokyo)

ADDRESS:

30, Oyaguchi Kami-machi,
Itabashi-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Jun Ashihara	
Dr.	Nario Endo	
Dr.	Fumio Katano	
Dr.	Kyozo Kikuchi	
Dr.	Yoshinoro Oshio	
Dr.	Makoto Seto	
Dr.	Takeo Suzuki	
Dr.	Otchiko Takayama	

AP aims and actions:

Research Areas: Effects of Air Pollution on the Nose and Throat were studied epidemiologically and morphologically for the past several years.

Comments:

Journal of Medicine
1959/q/350p/B5/¥250/Europ/Sum (Europ)/A

JA	287A	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Nihon Medical College

Nihon Ika Daigaku

ACRONYM:

See also (Tokyo)

ADDRESS:

1-1-5, Sendagi, Bunkyo-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Journal (Nihon Ika Daigaku Zasshi) 1923/q/50p/B5/¥600/Jap/Non/A

JA	288	ACD	/ / C D E /	01 02 03 04 05	11 12 13 14 15	21 22 23 / 25	31 32 33 34 35	L M /	1 2 /	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ochanomizu University, Faculty of Natural Science

Ochanomizu Joshi Daigaku Shizenkagakubu

ACRONYM:

See also (Tokyo)

ADDRESS:

35, Otsuka-machi, Bunkyo-ku,
Tokyo

Tel.:

AFFIL:

Ministry of Education

Title	PERSONNEL	Function
Dr.	Jiro Sakagami	Dept. of Physics

AP aims and actions:

Research Equipment: Wind Tunnel

Research Areas: Model Studies in Wind Tunnel

Theoretical and Experimental Investigation of the Atmospheric Diffusions.

Comments:

Natural Science Reports (Ochanomizu Joshi Daigaku Shizenkagaku Hokoku)
1951/sa/50p/B5/nfs/Europ/Sum (Europ)/A

JA	289	ACD	/ / C D E F	01 02 03 04 05	11 12 / 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Okayama University, Faculty of Engineering

Okayama Daigaku Kogakubu

ACRONYM:

See also JA-072;094;107

ADDRESS:

Tsushima, Okayama-shi,
Okayama-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	M. Ota	

AP aims and actions:

Research Areas: Effect of air pollution on metals.

Comments:

JA	290	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 14 [✓ 15]	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969		S	T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Osaka City University, Faculty of Economics
Osaka Shiritsu Daigaku Reizai - Gakubu

JA 291-296; 260; 265;
See also see 073 for add'l.

ADDRESS:
Sugimoto-cho, Sumiyoshi-ku,
Osaka-shi

Tel.:

AFFIL:
Osaka City Government

Title	PERSONNEL	Function
Prof.	Takafumi Isomura	
	Koji Shibiyama	

AP aims and actions:

Research Areas: Economic loss due to air pollution, Domestic Section, Industrial Section, Government Section.

Comments:

JA	291	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 [✓ 25]	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Osaka City University, Faculty of Engineering
Osaka-shiritsu Daigaku Kogakubu

JA 290-296; 260; 265;
See also see 073 for add'l.

ADDRESS:
Nishi Ogi-machi, Kita-ku,
Osaka-shi

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	Hagashino	
Prof.	Tetsuo Toshida	
	Hiroshige Katayama	

AP aims and actions:

Research Areas: Automobile exhaust; Oxidation and Adsorption of SO_2

Comments:

Memoirs
1959/a/230p/B5/nfs/Europ/Sum (Europ)/A

JA	292	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Osaka City University, Faculty of Medicine

Osaka-shiritsu Daigaku Igakubu

JA 290-296; 260; 265;

See also see 073 for add'l.

ADDRESS:

33, J oan-cho, Kita-ku,
Osaka-shi

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Tohru Fujii	
Dr.	Kazuy Horiuchi	
Dr.	Kunio Owado	
Dr.	Hachiro Yasukawa	

AP aims and actions:

Research Areas: Effect of fluorides on humans; Analysis of Suspended Particulate Matter; Odors from Plastics Manufacture

Comments:

Medical Journal (Osaka-Shiritsu Daigaku Igaku Zasshi)
1949/m/320p/B5/nfs/Jap/Sum(Jap,Europ)/A
Medical Journal
1949/q/165p/B5/nfs/Europ/Sum(Europ)/A

JA	293	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Osaka City University, Faculty of Science of Living

Osaka-shiritsu Daigaku Kasei Gakubu of Living

JA 290-296; 260; 265;

See also see 073 for add'l

ADDRESS:

459 Sugimoto-cho, Sumiyoshi-ku
Osaka-shi

Tel.: (06) 692-1231

AFFIL:
Architectural Institute of Japan
Japanese Society of Public Health
The Society of Heating, Air Conditioning & Sanitary Engineers of Japan

Title	PERSONNEL	Function
Dr.	Shosaburo Ishido	Environmental Science
Dr.	Tikita	

AP aims and actions:

Research Areas: Effect of air pollution on building and housing environment.

Comments:

JA	294	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Osaka University, Faculty of Engineering

Osaka Daigaku Kogakubu

JA 290-296; 260; 265;

See also see 073 for add'l.

ADDRESS:

9, Higashi Noda-machi,
Miyakojima-ku, Osaka-shi

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	K. Shinta	

AP aims and actions:

Research Areas: Source Engineering; Air Quality Measurement

Comments:

Technology Reports (Osaka Daigaku Kogaku Hokoku)
1951/sa/335p/B5/nfs/Europ/Sum (Europ)/A

JA	295	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 ~~12~~ 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: College of Agriculture, University of Osaka Prefecture

Osaka-furitsu Daigaku Nogakubu

JA 290-296; 260; 265;

See also see 073 for add'l

ADDRESS:

Mozu-Umemachi
Sakai-shi
Osaka-Fu

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	Musha	Dept. of Engr.
Dr.	Takaya Osawa	
Prof.	R. Takahashi	
Prof.	K. Yabuki	

AP aims and actions:

Research Areas: Effects of pollutants on vegetation; Analysis of pollutants.

Comments:

Bulletin - Agriculture & Biology (Osaka-furitsu Daigaku Kiyo Nogaku Seibutsugaku)
1951/a/100p/B5/nfs/Jap, Europ/Sum (Jap, Europ)/A

JA	296	ACD	☒ ☒ C D E F	01 02 03 04 05	11 12 13 14 15	21 ☒ 23 24 25	31 32 33 34 35	L M ☒	1 2 ☒	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Osaka Womens College

Osaka Joshi Daigaku

ACRONYM:

See also JA 291-296; 260; 265
see 073 for add'l

ADDRESS:

3, Tezukayama Higashi
Sumiyoshi-ku, Osaka-shi

Tel.: 06-671-7777

AFFIL:

Title	PERSONNEL	Function
	Kimiko Fujie	
M.D.	Shunichi Yoshikawa	Prof.

AP aims and actions:

Research Areas: Chemical Analysis of Pollutants

Comments:

JA	297	ACD	☒ ☒ C D E F	01 02 03 04 05	11 ☒ 13 14 15	21 ☒ 23 24 25	31 32 33 34 35	L M ☒	1 2 ☒	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Shizuoka College of Pharmacy

Shizuoka Yakka Daigaku

ACRONYM:

See also JA - 078

ADDRESS:

160, Oshika
Shizuoka-shi
Shizuoka-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Tomoyuki Fukuchi Yasunobu Suketa Kinie Takahashi Takeo Yamamoto	

AP aims and actions:

Research Areas: Measurement of fluorides in vegetation and in the atmosphere; odor control; combustion research.

Comments:

JA	298	ACD	✓ ✓ C D E F	✓ 02 03 04 05	✓ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ✓	1 2 ✓	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Department of Hygiene, School of Medicine, Showa University

Showa Daigaku Igaku-bu Eisaigaku-kyoshitsu

ACRONYM:

See also (Tokyo)

ADDRESS:
141 Hatanodai 1-5-8,
Shinagawa-ku, Tokyo

Tel.: 03-784-1151

AFFIL.: Japan Society of Industrial Medicine, The Japanese Society for Hygiene, Japan Society of Air Pollution, Japanese Society of Public Health, etc.

Title	PERSONNEL	Function
M.D.	Hiroshi Yamaguchi	Asst. Professor

AP aims and actions: Research Areas: Effects of Air Pollutants in the Respiratory Cavity.

Modelled Experiment on Absorption Efficiency of Respiratory Mucous Membrane to SO_2 and NO_2 Gas (J.Jap. Soc. Air Poll., 2, 59, 1967. Jap.J.Hyg., 23, 1, 187 1968), Uptake of NO_2 by the Human Respiratory System (Jap.J.Ind.Health, 10, 4, 246, 1968), Dynamic Method for P-V Curve Recording with Enucleated Lung of Animals (Jap.J.Hyg., 25, 1, 37, 1970)

Comments:

JA	299	ACD	✓ ✓ C D E ✓	01 02 03 04 05	11 12 13 14 15	21 ✓ 23 ✓ 25	31 32 33 34 35	L M ✓	1 2 ✓	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Tohoku University, Faculty of Engineering

Tohoku Daigaku Kogakubu

ACRONYM:

See also JA-065; 092; 126

ADDRESS:
Aobayamo
Sendai-shi, Miyagi-ken

Tel.:

AFFIL.:

Title	PERSONNEL	Function
Prof.	Tsugio Sawaya	Analytical Chemistry

AP aims and actions:

Research Areas: Meteorological Modeling; Diffusion Analysis; Odor Measurement, Air pollution measurement, Analytical Chemistry (Gas & water analysis)

Comments:

Technology Reports (Tohoku Daigaku Kogaku Hokoku)
1920/sa/120p/B5/nfs/Europ/Sum (Europ)/A
Analytical Chemistry (Ed. by Japan Soc. for Analytical Chemistry)

JA	300	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokushima University, Faculty of Medicine
Tokushima Daigaku Igakubu

ACRONYM:

See also JA-080; 097

ADDRESS:
3, Kuramoto-cho,
Tokushima-shi, Tokushima-ken

Tel.:

AFFIL:
Department of Hygiene

Title	PERSONNEL	Function
	M. Nagayasu	
	K. Nishiyama	
	Y. Suzuki	

AP aims and actions:

Research Areas: Use of uranine as an atmospheric tracer.

Comments:
Shikoku Acta Medica (Shikoku Iga Ku Za sshi)
1950/n/110p/B5/¥300/Jap/Sum(Europ)/A

Journal
1954/3nospa/30p/B5/nfs/Europ/Sum (Europ)/A

JA	301	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokyo Agriculture University
Tokyo Nogyo Daigaku

ACRONYM:

See also (Tokyo)

ADDRESS:
1-1-1, Sakuragaoka
Setagaya-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Kiichi Nishiyama	
	Morimasa Yamasaki	

AP aims and actions:

Research Areas: Diagnosis of Air Pollution Plant Damage.

Comments:
Memoirs (Tokyo Nogyo Diagaku Kiyo)
1956/a/60p/B5/nfs/Europ/Sum (Europ)/A

Journal (Tokyo Nogyo Daigaku Nogaku Shuho)
1927/q/65p/B5/nfs/Jap.Europ/Sum (Jap,Europ)/A

JA	302	ACD	/ / C D E /	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Tokyo Agriculture & Technology University, Faculty of Agriculture
Tokyo Noko Daigaku Nogakubu

ACRONYM:

See also (Tokyo)

ADDRESS:

3-5-8, Sawai-cho, Fuchu-shi,
Tokyo-to

Tel.:

AFFIL:

Experimental Forests
(Enshurin)

Title	PERSONNEL	Function

AP aims and actions:

Comments:
Bulletin (Tokyo Noko Daigaku Nogakubu Gakujutsu Hokoku)
1950/irr/ppv/B5/nfs/Jap/Sum (Jap, Europ)/A

Bulletin of Experimental Forests (Tokyo Noko Daigaku Noga Kubu Enshurin Hokoku)
1958/irr/115p/B5/nfs/Jap/Sum(Europ)/A

JA	303	ACD	/ / C D E /	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Tokyo Education University, Faculty of Science
Tokyo Kyoiku Daigaku Riga Kubu

ACRONYM:

See also (Tokyo)

ADDRESS:

24, Otsuka Kubo-machi
Bunkyo-ku, Tokyo

Tel.:

AFFIL: Department of Geography
Laboratory of Climatology
(Chigakuka Kikugaku Kyoshitsu)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Tokyo Journal of Climatology
1964/sa/85p/B5/nfs/Europ/Sum (Europ)/A

JA	304		~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 ~~14~~ 15	21 22 23 ~~24~~ 25	~~31~~ 32 ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3			S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Tokyo Institute of Technology
Tokyo Kogyo Daigaku

ACRONYM:
See also (Tokyo)

ADDRESS:
2-12-1, Ookayama, Meguro-ku
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:	PERSONNEL
Dr. Raisaku Kiyoura Milton Munidasa	Prof. of Chem. Engineering (Flue gas desulfurization; Monitoring and analysis of pollutants)
Dr. Mikio Hino	Prof. of Civil Engineering (Computer analysis and modeling of diffusion)
Dr. Ichiya Hayakawa	Air cleaning - Professor of Environmental Engineering
Prof. S. Ishihara	Dept. of Social Eng. - City Management

Comments:

Bulletin (Tokyo Kogyo Daigaku Gakuho)
1949/irr/100p/B5/nfs/Jap/Non/A

Bulletin
1950/q/85p/B5/nfs/Europe/Sum(Europ)A

JA 304

Kiyoura Lab - G. Uwanishi
T. Kuramoto
S. Iguchi
H. Mezuzawa

The Kiyoura Lab carries out experiments on monitoring analysis and pilot plant scale experiments on the effective removal of SO_2, NO_2 and particulates from the atmosphere.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	305	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T

NAME: Tokyo Medical and Dental University
Tokyo Ika Shika Daigaku

ACRONYM:
See also (Tokyo)

ADDRESS:
1-5-47, Yushima, Bunkyo-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Masahiro Ichioka	
Dr.	Hiromasa Kita	
Dr.	S. Oomichi	
Dr.	Toshio Suzuki	

AP aims and actions:

Research Areas: Effects of SO_2, NO_2 and O_3 on animals; Metal Analysis in particulate matter.

Comments:

Bulletin
1954/q/100p/B5/nfs/Europ/Sum(Europ)/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
JA	306	ACD	~~A~~ ~~B~~ C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L ~~M~~ S	1 ~~2~~ 3	1969	S T

NAME: Tokyo Metropolitan University, Faculty of Engineering
Tokyo-toritsu Daigaku Kogakubu

ACRONYM:
See also (Tokyo)

ADDRESS:
2-1-1, Fukazawa-cho,
Setagaya-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	S. Araki	
Dr.	T. Kato	

AP aims and actions:

Research Areas: Air Pollution Measurement

Comments:

Memoirs (Toky-toritsu Daigaku Kogakubu Hokoku) 1951/a/100p/B5/nfs/Europ/Sum(Europ)/A.C

JA	307	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] [✓ 12] 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokyo University

Tokyo Daigaku

ACRONYM:

See also (Tokyo)

ADDRESS: Faculty of Education(KyoyogaKubu)
865, Komaba-cho, Meguro-ku, Tokyo
Faculty of Medicine (Igakubu)
7-3-1, Hongo, Bunkyo-ku, Tokyo
Faculty of Pharmacy (Yakugabu)
7-3-1, Hongo, Bunkyo-ku, Tokyo

Tel.:

AFFIL: Faculty of Agriculture(Nogakubu)
Mukogaoka, Yayoi-cho, Bunkyo-ku, Tokyo

Communicable Disease Research Institute
(Densenbyo Kenkyusho) Shiba Shirogane, Minato-ku, Tokyo

Title	PERSONNEL	Function
Prof.	E. Fukui	Faculty of Education

AP aims and actions:

Faculty of Education

Research Areas: Climatology

Comments:

Faculty of Education:
Scientific Papers (Tokyo Daigaku Kyoyogakubu Shizen Kagaku Kiyo)
1951/a/135p/B5/nfs/Europ/Sum (Europ)/A

JA	308	ACD	[✓ A] [✓ B] C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 [✓ 14] 15	21 22 23 [✓ 24] 25	31 32 [✓ 33] 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokyo University, Faculty of Engineering

Tokyo Daigaku Kogakubu

ACRONYM:

See also (Tokyo)

ADDRESS:

7-3-1, Hongo, Bunkyo-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	H. Takayama	City Planning
	K. Ito	Mathematical Meteorological Models
Prof.	S. Masuda	Electrostatic Precipitators
Prof.	T. Asanuma	Automobile exhaust control, measurement and disbursion
Prof.	A. Hirao	
Prof.	J. Kondo	
Dr.	Kasuyata Tanaka	

AP aims and actions:

See "Function" above.

Comments:

Journal of the Faculty (Tokyo Daigaku Kogakubu Kiyo)
1963/a/230p/B5/nfs/Jap, Europ/Non/B2

Reports of the Institute (Sogo Shikenjo Nenpo)
1942/a/90p/B5/nfs/Jap/Sum(Europ)/A

JA	309	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	~~21~~ 22 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokyo University, Faculty of Law

Tokyo Daigaku Hogakubu

ACRONYM:

See also (Tokyo)

ADDRESS:

7-3, Hongo, Bunkyo-ku,
Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	K. Kanazawa	

AP aims and actions:

Comments:

JA	310	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 ~~25~~	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tokyo University, Institute of Industrial Science

Tokyo Daigaku Seisan Gijutsu Kenkyusho

ACRONYM:

See also (Tokyo)

ADDRESS:

7-22-1, Roppongi
Minato-ku, Tokyo

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Shinichi Kikuchi	Prof. Emeritus

AP aims and actions:

Research Areas: Photochemical conversion mechanisms for SO_2 in air.

Comments:

Reports (Tokyo Daigaku Seisan Gijutsu Kenkyusho Hokoku) 1950/irr/80p /B5/nfs/Jap.Europ/Sum(Jap)A Seisan-Kenkyu, 1968/Vol.20, p.52.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	311	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ ~~25~~	31 32 ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T

NAME: Science University of Tokyo

Tokyo Rika Daigaku

ACRONYM:

See also (TOKYO)

ADDRESS:

1-3, Kagurazaka
Shinjuku-ku
Tokyo

Tel.: 03-260-4271

AFFIL:

Title	PERSONNEL	Function
	Hiroshi Fujiwara	
	Toshihide Kioka	
	Yoshiyuke Nakajima	
	Toshimasa Ooki	
	Toshio Sekikawa	
	Katsuhiko Shudo	

AP aims and actions:

Research Areas: Efficiency of Aerosol Filtration; Ionization of Atmospheric Particles.

Comments:

Reports (Tokyo Rika Daigaku Kenkyu Ronbunshu) 1958/a/ppv/B5/nfs/Jap, Europ/Sum (Jap,Europ)/A

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
JA	312	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T

NAME: Toyama University, Faculty of Engineering

Toyama Daigaku

ACRONYM:

See also JA-083

ADDRESS:

Gohuku, Toyama - shi

Toyama-Ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
	Tatsuo Kato	

AP aims and actions:

Research Areas: Gas Chromatographic analysis; Odor Measurement; Use of Freon-11 as Atmospheric Tracer

Comments:

JA	313	ACD	[✓ A] [✓ B] C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Waseda University, Faculty of Science
Waseda Daigaku Kikoagkubu

ACRONYM:

See also (Tokyo)

ADDRESS:
4-170 Nishiokuko
Shinjuku-ku, Tokyo

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.	T. Saito	

AP aims and actions:

Research Areas: Internal Combustion Engines

Comments:
Memoirs (Waseda Daigaku
Rikogakubu Kiyo)
1922/a/110p/B5/nfs/Europ/Non/A

JA	314	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Society of Yamaquchi: Industrial Health
Yomaguchi Sangyo Igaku Kenkyukai

ACRONYM:

See also JA-315;316;086

ADDRESS:
144, Ogushi, Ube-shi,
Yamaguchi-ken

Tel.: Ube 31-3121

AFFIL:

Title	PERSONNEL	Function
Dr.	Y. Nose	Prof. Director (Yamaguchi University School of Medicine)

AP aims and actions:

Comments:

Annual Report (Yamaguchi Sangyo Igaku Nenpo)

1953/a/110p/B5/nfs/Jap/Non/A

JA	315	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Yamaguchi University, Faculty of Medicine

Yamaguchi Daigaku Iqakubu

ACRONYM:

See also JA 314; 316; 086

ADDRESS:

144, Ogushi, Ube-shi,
Yamaguchi-ken

Tel.: Ube 31-3121

AFFIL:

Title	PERSONNEL	Function
Dr.	Nose	Prof.
Dr.	Tamura	Asst. Prof.
Dr.	Yoshizaki	Lecturer

AP aims and actions:

Research Areas: Relationships between Air Pollution and Respiratory and Heart Disease; Epidemiology of Air Pollution.

Comments:

Bulletin
1953/9/60p/B5/nfs/Europ/
Sum(Europ)/A

JA	316	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Yamaguchi University, Faculty of Engineering

Yamaguchi Daigaku Kogakubu

ACRONYM:

See also JA 314; 315; 086

ADDRESS:

Tokiwadai, Ube-shi
Yamaguchi-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Yutaka Ueoka	Prof.
	Takayoshi Adachi	Assoc. Prof.
	Kiyotaka Hashimoto	
	Shigemichi Kadowaki	
Dr.	Makoto Kimura	Prof.

AP aims and actions:

Research Areas: Cyclone Dust Collectors, Scrubbers, Electro-static Precipitators.

Comments:

Memoirs (Yamaguchi
Daigaku Kogakubu Kenkyu Hokoku)
1950/irr/150p/B5/nfs/Jap,Europ/
Sum(Jap)/A

JA	317	ACD	[✓ A] [✓ B] C D E [✓ F]	[✓ 01] 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Yokohama City University, School of Medicine
Yokohama-shiritsu Daigaku Igakubu

ACRONYM:

See also Kanagawa-ken

ADDRESS:
2-33, Urafune-cho, Minami-ku,
Yokohama-shi, Kanagawa-ken

Tel.: (045) 231-2081

AFFIL:

Title	PERSONNEL	Function
M.D.	Masao Shishido	Prof.
M.D.	Shinro Yamaga	Prof.
M.D.	Kido Sugita	Asst. Prof.
M.D.	Kaoru Ohmori	Asst. Prof.
M.D.	Eiko Hino	Asst.
	Haruko Saito	Asst.
	Akemi Tanizaki	Asst.

AP aims and actions:

Research Areas: Effect of Automobile exhaust on human beings and experimental animals; Air Quality measurement.

Comments:

Journal (Yokohama Igaku)
1948/5nospa/100p/B5/nfs/Jap/Non/A

Bulletin
1951/bm/40p/B5/nfs/Europ/Sum(Europ)/A

JA	318	ACD	[✓ A] [✓ B] C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Yokohama National University, Faculty of Engineering
Yokohama Kokuritsu Daigaku Kogakubu

ACRONYM:

See also (Kanagawa-ken)

ADDRESS:
702, Ooka-cho,
Minami-ku, Yokohama-shi,
Kanagawa-ken

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Tetsuzo Kitagawa	Prof. of Safety in Chemical Engineering
Prof.	A. Konno	City Planning
	Masahiro Hori	
Dr.	Yoshitaka Kobayashi	Asst. Professor
	Tayeo Matsuzawa	

AP aims and actions:

Research Areas: Air Pollution Measurement Methods; Automobile exhaust measurement; Field Studies

Comments:

Bulletin (Yokohama Kokuritsu Daigaku Kogakubu Kiyo)
1951/a/130p/B5/nfs/Europ/Sum(Europ)
A.C

Fundamental Research on Materials (Yokohama Kokuritsu Daigaku, Zairo Kiso Kogaku Kenkyu)

JA	319	INF	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	~~S~~ T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Association for Science Documents Information

Gakujutsu Bunken Fukyu-Kai

ACRONYM:

See also JA-324; 320; 321;324

ADDRESS:

% Tokyo Institute of Technology
Oh - okayama, Meguvo-ku

Tel.: 726-7118 Tokyo

AFFIL:

Tokyo Institute of Technology

Title	PERSONNEL	Function
Mr.	T. Nakajima	Director
Mr.	T. Okada	Chief

AP aims and actions:

Handles all types of printing and publishing for the Institute and most other related Associations in Japan.

Comments:

Book: Directory of Japanese Scientific Periodicals - 1967 (in English and Japanese)- compiled by National Diet Library 2,200 (660 pp)

1928/m/100p/7.6x12.4cm/¥500/
Jap/Non/C

JA	320	INF	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Japanese Documentation Society

Nihon Dolumenteshon Kyokai

ACRONYM:

See also JA-319;321;324

ADDRESS:

c/o Kikai Shinko Kaikon,
1-5, 21-gochi, Shiba Koen,
Tel.: Minato-ku, Tokyo

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Documentation News (Dokumenteshon Nyusu)
1959/m/10p/B5/¥20/Jap/Non/B2

Documentation Study (Dokumenteshon Kenkyu)
1951/bm/35p/B5/ ¥300/Jap/Non/B1,C

JA	321	INF	A / C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	/ M S	/ 2 3	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Japan Information Center of Science and Technology
Nihon Kagaku Gijutsu Joho Senta

ACRONYM:

See also JA-003

ADDRESS:
2-1-1, Nagata-cho, Chiyoda-ku,
Tokyo

Tel.: (C.P.O. Box 1478, Tokyo)

AFFIL: Prime Minister's Office
(Sohri Fu)
Science and Technology Bureau
(Kagaku Gijutsu Cho) (003)

Title	PERSONNEL	Function

AP aims and actions:

Provides Bibliographic, Photo duplication, Translation, Abstracting and Information Retrieval Services

Comments:

See separate page "JICST Services and Publications"

JA 321

Current Bibliography on Science and Technology (Kagaku Gijutsu Bunken Sokuho)
1958/sm*/220p/A4/#31,000pa/Jap/Non/C

* 3 times/month	Chemistry and Chemical Industry
* Semi-monthly	General and Mechanical Engineering
	Electrical Engineering
	Earth Sciences, Mining and Metallurgy
	Civil Engineering and Architecture
	Pure and Applied Physics
* Monthly	Atomic Energy (Isotopes and Radiation Chemistry)
	Management and Administration
	Chemical Abstracts of Japan (Nihon Kagaku Soran)

JA	322	INF	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	1969	[illegible] T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Japanese Society for Promotion of Science
Nihon Gakujutsu Shinkokai

ACRONYM:

See also

ADDRESS:
1-1, Kanda Hitotsubashi,
Chiyoda-ku, Tokyo

Tel.:

AFFIL: Editorial Committee on Reports of Research by Grantees (Kenkyu Hokoku Shiroku Henshu Iinkai)

Title	PERSONNEL	Function

AP aims and actions:

Annual Reports of Institutional Research, Ministry of Education (Kenkyu Hokoku Shuroku, Kikan Kenkyu-hen)
1952/a/135p/B5/¥420/Jap/Non/B2

Annual Report of Co-operative Research, Ministry of Education, Cancer (Kenkyu Hokoku Shuroku, Gan-hen So go Kenkyu)
1952/a/100p/B5/¥430/Jap/Non/B2

Japanese Scientific Monthly (Gakujutsu Geppo)
1948/m/80p/B5/¥200/Jap/Non/B1,B2

Comments:

Activity: Limited to the field of radio-activity.

JA 322

Annual Reports of Scientific Research Grants, Ministry of Education, Radiation Effects (Co-operative Researches)
(Kenkyu Hokoku Shuroku, Hoshasen Eikyo-hen)
1963/a/200p/B5/¥1,400/Jap/Non/B2
Reports on Researches by Grantees, Ministry of Education
(Kenkyu Hokoku Shuroku)
- --Agriculture 1 (Nogaku-hen, 1, Sogo Kenkyu)
  --1952/a270p/B5/¥870/Jap/Non/B2
- --Agriculture 2 (Nogaku-hen, 2, Kagaku Shiken Kenkyu)
  1952/a/125p/B5/¥420/Jap/Non/B2
- --Agriculture 3 (Nogaku-hen, 3, Kakko Kenkyu)
  1952/a240p/B5/¥720/Jap/Non/B2
- --Chemistry (Kagaku-hen)
  1952/a/135p/B5/¥540/Jap/Non/B2
- --Engineering 1 (Kogaku-hen, 1, Obutsu, Kikai, Denki, Zosen)
  1952/a/240p/B5/¥1,300/Jap/Non/B2
- --Engineering 2 (Kogaku-hen, 2, Doboku, Kenchiku)
  1952/a/130p/B5/¥670/Jap/Non/B2
- --Engineering 3 (Kogaku-hen, 3, Kozan, Kinzoku)
  1952/a/105p/B5/¥560/Jap/Non/B2

JA 322

- --Medicine (Igaku Oyobi Yakugaku-hen)
  1952/a/580p/B5/¥2,500/Jap/Non/B2
- --Science 1 (Rigaku-hen, 1, Sugaku, Butsurigaku)
  1952/a/145p/B5/¥420/Jap/Non/B2
- --Science 2 (Rigaku-hen, 2, Chigaku, Seibutsugaku, Jinruigaku)
  1952/a/40p/B5/¥150/Jap/Non/B2

JA	323	INF	A [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Japanese Technical Report Publications Bureau
Gakkai Gyomu Kyogi Kai

ACRONYM:

See also

ADDRESS:
5-3, Koji-machi, Chiyoda-ku,
Tokyo

Tel:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Industry and Industrial Products
(Kogyo to Seihin)
1963/m/180p/A4/¥300/Jap/Non/B1

Waste Gas and Waste Water Data Book
Industrial Intermediate Data Book

JA	324	INF	A [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		[✓ S] T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: National Diet Library
Kokuritsu Kokkai Toshokan

ACRONYM:

See also JA-319; 320; 321

ADDRESS:
1-10-1, Nagata-cho,
Chiyoda-ku, Tokyo

Tel:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Japanese Periodicals Index, Science and Technology
(Zasshi Kiji Sakuin, Kagaku Gijutsu-hen)
1950/m/110p/B5/nfs/Jap, Europ/Non/C

Comments:

Science and Technology Information Service (Kagaku Gijutsu Bunken Sabisu)
1926/q/25p/B5/nfs/Jap/Non/B/

Monthly List of Foreign Scientific and Technical Publications
(Kaigai Kagaku Gijutsu Shiryo Geppo)
1961/m/100p/B5/¥450/Europ/Non/C

PROPRIETARY PUBLISHERS

No.	Name/Address	Publications
JA 325	Asahi Newspaper Company Asahi Shim bun-sha 2-3, Yuraku-cho, Chiyoda-ku, Tokyo	Book: "A challenge to Cities" - ¥ 450 (In Japanese) Scientific Asahi (Kagaku Asahi) 1941/m/150p/B5/¥ 180/Jap/Non/B1
JA 326	Chijin Shokan K. K.	Book: "Test Methods for Air Pollution," - ¥ 500 (In Japanese)
JA 327	Chuo Hoki Shuppan 3-24-3, Nishi Shin bashi, Minato-ku, Tokyo	Book: "Collection of Laws, Ordinances and cases for the Public Nuisance Control Corporation" (Kogai Boshi Gigyo Can Raiki Shu) Compiled by study Group on Public Nuisance Control (Kogai Boshi Kenkyu Kai) - ¥ 2500 (In Japanese) Book: "Collection of Laws and Ordinances on Environmental Sanitation" (Kankyo Eisei Kankei Hoki Shu) - Compiled by Environmental Sanitation Section, Ministry of Health and Welfare - ¥ 4000 (In Japanese)
JA 328	Chuo Koron-sha 2-1, Kyobashi, Chuo-ku, Tokyo	- Nature (Shizen); 1946/m/100p/B5/¥ 170/Jap/Non/B1 - Conservation of Nature (Shizen Hogo); 1960/m/10p/B5/¥ 20/Jap/Non/B1, B2
JA 329	Corona	Book: "Handbook of Air Pollution and Meterology" - Compiled by Japan Society of Air Pollution - ¥ 2600 (In Japanese) Book: "Test Methods for Air Pollution" - Compiled by Japan Society of Air Pollution - ¥ 1500 (In Japanese) Book: "Dust Collector Handbook" - Compiled by Japan Society of Air Pollution - ¥ 1100 (In Japanese) Book: Araki, A., "Gas Chromatography - ¥ 300 (In Japanese) Book: Sawahata, Y., "The Chemistry of Powders" - ¥ 280 (In Japanese)

PROPRIETARY PUBLISHERS

No.	Name/Address	Publications
JA 330	Daily Industrial News Company	Book: Iinoya, K., "Dust Collectors" - ¥ 1800 (In Japanese) Book: Kimura, T., and Kimura, K., "Industrial Nuisances" ¥ 850 (In Japanese)
JA 331	Denryoku-sha 49, Shinogamo Nishi, Umenoki-sho, Sakyo-ku, Kyoto-shi, Kyoto-ken	- Electric Power (Denryoku) ; 1918/m/115p/B5/¥ 200/Jap/Non/B1
JA 332	Denshi Keisoku Shuppan-sha 2-69, Fujimi-cho, Chiyoda-ku, Tokyo	- Instrumentation (Denshi Keisoku); ?/m/90p/B5/¥ 150/Jap/Non/B1
JA 333	Diamond	Book: Ninomiya, K., "The Over-crowded City" - ¥ 320 (In Japanese)
JA 334	Enjiniaringu-sha 1-42, Sonezaki Kami Kita-ku, Osaka-shi	- Engineering; 1913/m/60p/?/¥ 100/Jap/Non/B1, B2
JA 335	Fuji Koho-sha 11, Kanda, Jigashi, Matsushita-cho, Chiyoda-ku, Tokyo	Public Nuisance (Kogai); q/¥ 800 pa
JA 336	Gihodo 3-6 Akasaka, 1 Chome Minato-ku Tokyo 584-4784	Book: Terabe, M., "The Chemistry of Air Pollution" - 1966 ¥ 1600 (In Japanese) - 390 pp.
JA 337	Hakusai-Sha	Book: Asai, A., "Dirty Air" - ¥ 150 (In Japanese)
JA 338	Hoken Sangyo Jiho-sha 2-24, Ikebukuro Higashi, Toshima-ku, Tokyo	- Health and Industry (Hoken Sangyo Jiho) 1950/3 nospm/8p/38 cm/¥ 1,000 pa/Jap/Non/B2

PROPRIETARY PUBLISHERS

No.	Name/Address	Publications
JA 339	Hokutan Bunka Kogyo	Book: "A technical-term Dictionary for Pollution Control" - Compiled by Japan Industrial Land Location Center (Nihon Kogyo Ritchi Senta) - ¥ 2400 (In Japanese) Book: "Examples of flue-gas treatment" - Compiled by Japan Industrial Land Location Center (Nihon Kogyo Ritchi Senta) - ¥ 1300 (In Japanese) Book: "Digest of Public Nuisance Control" - Compiled by Japan Industrial Land Location Center (Nihon Kogyo Ritchi Senta) - ¥ 230 (In Japanese)
JA 340	Igaku Shoin 5-29-11, Hongo, Bunkyo-Ku, Tokyo	- Journal of Public Health Practice (Koshu Eisei) 1946/m/60p/B5/¥ 350/Jap/Non/A, B1 - Otolaryngology (Jibi Inkoka) 1928/m/100p/B5/¥ 350/Jap/Sum (Europ)/A - Respiration and Circulation (Kokyu to Junkan) 1953/m/85 p/¥ 300/Jap., Europ/Sum (Europ)/A, B1, C
JA 341	Ikegami Shoten	Book: Ito, "Air Pollution and Its Control" - ¥ 680 (In Japanese)
JA 342	Iwanami Shoten 2-3, Kanda Hitotsubashi, Chiyoda-ku, Tokyo	Book: Shibata, T., "Cities of the World" - ¥ 130 (In Japanese) Book: Shoji, H., and Miyamoto, "Dangerous Pollution - ¥ 130 (In Japanese) - Science (Kagaku); 1931/m/60p/B5/¥ 150/Jap/Non/B1
JA 343	Kadokawa Shoten K.K.	Book: Toyama, T., and Kagawa, J., "Life in Smog" - ¥ 270 (In Japanese)
JA 344	Kagaku Kogyo Jiho-sha 1-18, Tsukiji, Chuo-ku, Tokyo	- Chemical Industry Times (Kagaku Kogyo Jiho) 1938/3 nospm/16p/A4/ ¥ 70/Jap/Non/B2, D
JA 345	Kagaku Kogyo-sha 1-11, Kanda, Awaji-cho, Chiyoda-ku, Tokyo	- Chemical Industry (Kagaku Kogyo) 1950/m/100p/B5/¥ 200/Jap/Non/B1, C

PROPRIETARY PUBLISHERS

No.	Name/Address	Publications
JA 346	Kagaku Shinbun-sha 1-7, Shiba Hamamatsu-cho, Minato-ku, Tokyo	- Science News (Kagaku Shinbun); 1946/w/8p/55 cm/¥ 150 pm/Jap/Non/B2
JA 347	Kinbara Shuppan	Book: "Test Methods for Hygienic Sciences" - ¥ 4000 (In Japanese)
JA 348	Kinokum 'ya	Book: Ho, "Smog" - ¥ 250 (In Japanese)
JA 349	Kobundo	Book: "The Story of Air" - ¥ 280 (In Japanese)
JA 350	Kodan-sha Otowa, Bunkyo-ku, Tokyo, Tokyo-to	Book: Kiyoura, R., "The Challenge for Public Nuisances" - ¥ 280 (In Japanese)
JA 351	Kogaku Shuppan-sha 1-5-3, Suido, Bunkyo-ku, Tokyo	- Civil Engineering (Kogaku Kenkyu) 1937/m/60p/B5/¥ 180/Jap/Non/A
JA 352	Kogyo Gijutsu-sha 2-19, Kanda Tsukasa-cho, Chiyoda-ku, Tokyo	- Instrumentation (Keisa) 1958/m/90p/B5/¥ 180/Jap/Non/B1, C - Industrial Science and Technology 1960/m/75p/B5/¥ 220/Jap/Non/B2
JA 353	Nenryo oyobi Nensho-sha 21, Kitayama-cho, Tennoji-ku, Osaka-shi	- Fuel and Combustion (Nenryo oyobi Nensho) 1934/m/100p/B5/¥ 250/Jap/Non/B1
JA 354	New Life Center Shin-seikatsu Undo-Kyokai Hibiya Pork, Chiyodo-ku, Tokyo	Book: Kiyoura, R., "Public Nuisances and Inhabitants" - ¥ 300 (In Japanese)
JA 355	Nihon Hyoron-Sha	Book: Katsunuma, H., "Smog and Civilization" - ¥ 380 (In Japanese) Book: "Outline of Public Nuisance and Hygienic Science, No. 3" (Kogai Eisei Kogaku Taikei No. III) - ¥ 1500 (In Japanese) Includes: Suzuki, S., "Air Pollution", and Tamefuji, T., Laws Relatingto Public nuisance and hygienic science.
JA 356	Nihon Iji Shinpo-sha 2-11, Ginza Higashi, Chuo-Ku, Tokyo	- Japanese Medical Journal (Nihon Iji Shinpo) 1921/w/135p/B5/¥ 90/Jap/Non/B1

PROPRIETARY PUBLISHERS

No.	Name/Address	Publications
JA 357	Nihon Rinsho-sha 3-28, Dosho-machi, Higashi-ku, Osaka-shi	- Japanese Journal of Clinical Medicine (Nihon Rinsho) 1943/m/200p/B5/pv/Jap/Non/B1
JA 358	Nihon Rinsho Kekkaku-sha % Kokuseido Shuppan K. K. 3-23-5, Hongo, Bunkyo-ku, Tokyo	- Japanese Journal of Chest Diseases (Nihon Kyobu Rinsho) 1960/m/70p/B5/¥ 250/Jap/Non/A
JA 359	Nihon Shiryo Chosa K. K. % Akaishi Bldg, 2-24, Kanda Jinbo-cho, Chiyoda-ku, Tokyo	- Meteorological Information News (Kisho Shiryo Sokohu) 1965/3 nospm/10p/B5/¥ 2000 pa/Jap/Non/B2, D
JA 360	Nikkan Kogyo Shinbun-sha 1-1, Iida-machi, Chiyoda-ku, Tokyo	- Automation (Otomeshon); 1955/m/116p/B5/¥ 200/Jap/Non/B1, B2 - Chemical Factory (Kagaku Kojo); 1956/m/120p/B5/¥ 280/Jap/Non/B1, C - Engineering Journal (Gijutsu Janaru); 1959/w/12p/55 cm/¥ 120 pm/Jap/Non/B2 - Nuclear Engineering (Genshiryoku Kogyo); 1955/m/80p/B5/¥ 200/Jap/Sum (Jap)/B1,C - Industrial Daily News; 1901/d/16p/55cm/¥ 600pm/Jap/Non/B2
JA 361	Puranto Kogaku-sha 1-6, Kanda, Izumi-cho, Chiyoda-ku, Tokyo	- Powder Engineering (Funtai Koga-Ku) 1964/m/100p/B5/¥ 200/Jap/Non/B1
JA 362	Saiwai Shobo % Suzuki Bldg., 1-5-2, Soto Kanda, Chiyoda-ku, Tokyo	- Petroleum and Petrochemicals (Sekiyu to Sekiyu Kagaku) 1957/m/95p/B5/¥ 280/Jap/Non/B1, D
JA 363	Sankaido 15, Saiku-machi, Shinjuku-ku Tokyo	- Internal Combustion Engine (Naineu Kikan) 1962/m/100p/B5/¥ 200/Jap/Non/A, B1, D

PROPRIETARY PUBLISHERS

No.	Name/Address	Publications
JA 364	Shin Nihon Hoki Shuppan	Book: "Laws on Public Nuisances" - Compiled by Ministries of International Trade and Industry; and Health and Welfare - ¥ 1800 (In Japanese)
JA 365	Sogo Tosho	Book: Okota, T., "Air Pollution" - ¥ 460 (In Japanese)
JA 366	Taka Shobo	Book: Amano, M., and Ono, F., "Cases on Public Nuisances" ¥ 2800 (In Japanese)
JA 367	Teikoku Chiho Gyosei Gakkai 52, Nishi Goken-cho, Shinjuku-ku, Tokyo	Book: "Collection of Laws, Ordinances and Cases on Public Nuisance" (Kogai Kankei Hoki Hanrei Shu) - Compiled by Environmental Sanitation Bureau, Ministry of Health and Welfare - ¥ 2500 (In Japanese)
JA 368	Tetsudo Nihon-sha 1-5, Nishi Kanda Chiyoda-ku, Tokyo	- Automobile Engineering (Jidosha Kogaku) 1952/m/185p/A5/¥140/Jap/Non/B2
JA 369	Todai Shuppan Kai	Book: "Public Nuisances" - ¥ 480 (In Japanese)
JA 370	Toshi Center	Book: "Air Pollution Control Law" - ¥ 200 (In Japanese)
JA 371	Tsusho Sangyo Kenkyu-sha	Book: "Public Nuisance Handbook" - ¥ 400 (In Japanese)
JA 372	Yuhi Kaku	Book: "Public Nuisances and Calamities" - ¥ 900 (In Japanese)

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NETHERLANDS - NL

NL	[redacted]	001	GOV	A [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	[✓ 21] 22 [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	7.69	[redacted]	S [✓ 1]
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: DE RAAD INZAKE DE LUCHTVERONTREINIGING
Air Pollution Council

ACRONYM:
See also NL.035

ADDRESS: Dokter Reijerstraat 10
LEIDSCHENDAM.

Tel.: 070-69.42.11

AFFIL: Min. Social Affairs & Public Health.

Title	PERSONNEL	Function
Ir.	S.H.Visser	chairman
Mr.	W. de Bruyn	secretary

+ 33 other members from local and central gov't, industry, and various associations (see Text).

AP aims and actions:
Advises Min.Soc.Affs.& Pub.Hlth. (Min.SoZaVo) on all AP matters.
Will be the body responsible for advice re application of the new AP Law.
Undertakes no practical work itself, but sponsors work by others (eg TNO).

Comments:
Set up by Min. in 1964 to advise in drafting of new Law. Is the highest non-gov't institution concerned with AP.

NL.001 De Raad inzake de Luchtverontreiniging 7.69

NL	[redacted]	002	GOV	A [✓ B] C [✓ D] [✓ E] F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	7.69	[redacted]	S [✓ 1]
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: HOOFDINSPECTIE VAN HET MILIEU
Environmental Health Inspectorate

ACRONYM:
See also

ADDRESS: Dokter Reijerstraat 10,
LEIDSCHENDAM.

Tel.:

AFFIL: Min. Social Affairs & Public Health.

Title	PERSONNEL	Function
Dr.	N.J.A.Groen	director
Drs.	F. Hartogensis	
Ir.	H. Eilers	
Ir.	W.J. Kolstee	

+ 7-8 district inspectors (possibly increasing to 15-20 by 1975)

AP aims and actions:
Surveillance and enforcement of clean air regulations; advice where appropriate.
Investigations and practical work passed to RIV (NL.006)

Comments:
Powerful official body.

NL.002 Hoofdinspectie van het Milieu 7.69

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NL. [redacted]	003	NAT	[✓ A] [✓ B] C [✓ D] E F	01 02 03 04 05	[✓ 11] 12 [✓ 13] 14 15	21 [✓ 22] [✓ 23] [✓ 24] [✓ 25]	31 [✓ 32] [✓ 33] [✓ 34] [✓ 35]	[✓ L] M S	[✓ 1] 2 3	7.69	[redacted]	[✓ S] [✓ 7]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: INSTITUUT VOOR GEZONDHEIDSTECHNIEK, TNO
Institute of Public Health Engineering, TNO

ACRONYM: (TNO)
See also NL.004

ADDRESS: Schoemakerstraat 97,
DELFT.

Tel.: 01730 - 37 00 0

AFFIL: TNO (see text)

Title	PERSONNEL	Function
Ir.	L. J. Brasser	head of AP division
Ir.	P. N. Meijer	" Indoor Air division (ie. Occupational Hyg.)
Total	AP effort aggragates 6P/16NP	DG 10m/yr
Dr.	P. E. Joosting	specialist on medical aspects.

AP aims and actions:
Research on methods of analysis and instrumentation.
Measurements of pollution levels (either for research or at request of local authorities or industries).
Correlations between emissions and pollution levels and public health.
Studies and advice on abatement processes (no pilot-plant work - see Centraal Technisch Inst. NL.004).

Comments:
Institute with international reputation.

NL.003 Instituut voor Gezondheidstechniek TNO 7.69

NL [redacted]	004	NAT	[✓ A] [✓ B] C D E F	01 02 [✓ 03] [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] [✓ 34] [✓ 35]	L [✓ M] S	[✓ 1] 2 3	7.69	[redacted]	S [✓ 7]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: CENTRAAL TECHNISCH INSTITUUT TNO
Central Technical Institute TNO

ACRONYM: TNO
See also NL.003

ADDRESS: Lange Kleiweg 41,
RIJSWIJK,
Zuid Holland.

Tel.:

AFFIL: (TNO)

Title	PERSONNEL	Function
	B. de Goede	head of Dept. of Technological Advice.

AP aims and actions:
Research on methods of analysis for gaseous and particulate pollutants.
Research and advice on treatment of effluent gases from chemical plant; includes pilot plant work (contrast Inst. Gezondheidstechniek TNO - NL.003).

Comments:

NL.004 Centraal Technisch Instituut TNO 7.69

NL [redacted]	005	NAT	~~A~~ ~~B~~ C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 ~~23~~ ~~24~~ 25	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	7.69	[redacted] S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: KONINKLIJK NEDELANDS METEOROLOGISCH INSTITUUT

Royal Netherlands Meteorological Institute

ACRONYM: K N M I

See also NL.008

ADDRESS:

DE BILT.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	F. H. Schmidt	director
	C. A. Velds	
	Lablantje	

AP aims and actions:

Meteorological aspects of AP.

Comments:

Assisted in setting up Rijnmond Authority's monitoring system (advice and early measurements) (see NL.008).

NL.005 Koninklijk Nederlands Meteorologisch Instituut 7.69

NL [redacted]	006	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ ~~23~~ 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	7.69	[redacted] S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: RIJKSINSTITUUT VOOR DE VOLKSGEZONDHEID

State Laboratory for Public Health

ACRONYM: R I V

See also

ADDRESS:

BILTHOVEN

Tel.:

AFFIL: Min. Soc. Affairs & Public H.

Title	PERSONNEL	Function
Dr	J. Spaander	director general
Dr	P. Spaander (cousin)	i/c AP work
	+ 10 others in AP work.	

AP aims and actions:

Measurement of current pollution levels in NL.
Research into methods of analysis and causes of AP.
Undertakes work at request of municipalities etc, and of Environmental Health Inspectorate (NL.002).
Is expected to operate the national survey network proposed for 1970.

Comments:

Sole gov't laboratory concerned with AP; tends to autonomy.

NL.006 Rijksinstituut voor de Volksgezondheid 7.69

NL [redacted]	007	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	7.69	[redacted] [✓ S] [✓ Y]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: PHILIPS NEDERLAND NV

ACRONYM: Philips

See also

ADDRESS:
EINDHOVEN

Tel.: 040-43 33 33

AFFIL.: NV Philips Gloeilampenfabrieken.

Title	PERSONNEL	Function
Ir	J.H.C.van Mourik	i/c AP work
Ir	G.W. Verbeeten	industrial automation div.
	H.J. Brouwer	res. lab. head
	+ 5-10 others in res. labs.	
	+ backing of instruments div.	

AP aims and actions:

Development of high quality instruments (preferably automatic) for AP monitoring, both indoor and outdoor.

SO_2 auto-monitor developed (see Rijnmond Authority plans for survey - NL.008); NO_2 Oxidant CO etc instruments being considered.
Central computer for suveillance and national telemetering system being developed.

Cooperates also with RIV (NL.006).

Comments:

Largest instrument manufacturer in NL.

NL.007 Philips Nedeland NV 7.69

NL [redacted]	008	GOV	A B C [✓ D] E F	01 02 03 04 05	11 12 13 [✓ 14] 15	21 [✓ 22] [✓ 23] [✓ 24] 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	7.69	[redacted] [✓ S] ✗
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: OPENBAAR LICHAAM RIJNMOND, Commissie voor de Milieu Hygiene
Rhine Estuary Public Authority, Cttee. for Environ'l Hygiene

ACRONYM: Rijnmond Auth.

See also NL.005-6-7

ADDRESS: Stationsplein 2,
SCHIEDAM.

Tel.:

AFFIL.: municipalities of the region.

Title	PERSONNEL	Function
Dr	L.A.Clarenburg	director

AP aims and actions:

To set up and operate in the Rijnmond area a centralised fully-automatic SO_2 monitoring system, with computer-based warnings to local authorities and to industry in its own area.
Registration of public complaints of AP.
Advice and information on AP to supporting municipalities.
Has no authority to demand remedial action; this remains with municipalities.

Comments:

Supported from local taxes, and by RIV and Philips (also KNMI)(NL.-005-6-7).
May widen monitoring to other pollutants (NO, Ox't) later.
Seen as trial set-up for national survey (see NL.006).

NL.008 Openbaar Lichaam Rijnmond, Comm. v d Milieu Hygiene 7.69

Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
NL	[redacted]	009	GOV	A [✓ B] C D [✓ E] F	01 [✓ 02] [✓ 03] [✓ 04] 05	[✓ 11] 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	L [✓ M] S	1 2 [✓ 3]	7.69	[redacted]	S T

NAME: DIRECTIE VOOR DE ARBEID

Labour Directorate

ACRONYM:

See also

ADDRESS: Balen van Adelplein 2,
VOORBURG.

Tel.:

AFFIL: Min. Social Affairs and Public H.

Title	PERSONNEL	Function
Ir	H.J.van Ebbenhort-Tenybergen	adviser on AP matters.

AP aims and actions:

Supervision of appropriate factory legislation.
Advisory role in application of Hinderwet; reviews all applications for licences, esp. as regards potential hazards for workers.

Comments:

NL.009 Directie voor de Arbeid 7.69

Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
NL	[redacted]	010	GOV	A [✓ B] C [✓ D] [✓ E] F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] [✓ 23] 24 25	31 [✓ 32] 33 [✓ 34] [✓ 35]	[✓ L] M S	1 [✓ 2] 3	7.69	[redacted]	S [✓ T]

NAME: ROTTERDAM: COMMISSIE BODEM, WATER, LUCHT

Rotterdam Commission for Soil, Water and Air

ACRONYM:

See also NL.011

ADDRESS: Baan 170,
ROTTERDAM.

Tel.:

AFFIL: Rotterdam Municipal Authority

Title	PERSONNEL	Function
	T.B.Hooghoudt	secretary

18-20 members including representatives of the Health Dept., Building & Housing Inspectorate, the Power Station, and the Bureau for Food Hygiene (whose lab is used for investigations). The Waterway Authority and Labour Inspectorate are also represented.

AP aims and actions:

Measurement of air quality around Rotterdam (mainly SO_2 and smoke).
Investigation of incidents and sources of pollution.
Studies of abatement measures.
Advice to Rotterdam Municipal Authority.

Comments:

Is the principal municipal commission of this type, and the most experienced.

Health Dept. includes K. Biersteko e.g. Arch Env; Health 20(3): 382, 1970

NL.010 Rotterdam: Commissie Bodem, Water, Lucht. 7.69

NL [redacted]	011	GOV	A ~~B~~ C ~~D~~ ~~E~~ F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ ~~23~~ 24 25	31 ~~32~~ 33 ~~34~~ ~~35~~	~~L~~ M S	1 ~~2~~ 3	7.69	[redacted]	S	~~A~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: AMSTERDAM: COMMISSIE BODEM, WATER, LUCHT

Amsterdam Commission for Soil, Water and Air

ACRONYM:

See also NL.010

ADDRESS: Nieuwe Achtergracht 100,
AMSTERDAM.

Tel.:

AFFIL: Amsterdam Municipal Council

Title	PERSONNEL	Function
Dr	A.L.Noordam	secretary

18-20 members including representatives of the Health Dept., Building and Housing Inspectorate, and the Power Station.

AP aims and actions:

Consideration of air quality around Amsterdam.
Studies of abatement principles.
Commissions measurements of pollutant levels as needed.
Advice to Amsterdam Municipal Authority.

Comments:

One of the few municipal commissions of this type (see also NL.010).

NL.011 Amsterdam: Commissie Bodem, Water, Lucht 7.69

NL [redacted]	012	NAT	~~A~~ ~~B~~ C ~~D~~ E F	01 02 03 04 05	11 ~~12~~ 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	~~L~~ M S	1 ~~2~~ 3	7.69	[redacted]	S	~~Y~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: INSTITUUT VOOR PLANTEZIEKTENKUNDIG ONDERZOEK

Institute for Phytopathological Research

ACRONYM: I P O

See also

ADDRESS: Binnenhaven 12 (D spelling)
WAGENINGEN

Tel.:

AFFIL: Univ. of Wageningen
Min. of Agric. and Fish.

Title	PERSONNEL	Function
Dr	J.G.ten Houten	director
Dip Ing.	F.H. Spierings	(VDI 127)

AP aims and actions:

Research into the effects of AP on plant growth and crop yield.
Investigation of instances of plant damage (possibly as a part of legal proceedings).

Comments:

Cooperates with Min.SoZaVo.
Offices in many parts of NL.
Wider interests than just AP.

NL.012 Instituut voor Plantenziektenkundig Onderzoek 7.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
NL [redacted]	013	TND	~~A~~ ~~B~~ C ~~D~~ E ~~F~~	01 ~~02~~ 03 04 ~~05~~	11 12 13 14 ~~15~~	21 ~~22~~ 23 ~~24~~ 25	~~31~~ ~~32~~ 33 ~~34~~ 35	~~L~~ M S	1 ~~2~~ 3	7.69	[redacted] S ~~T~~

NAME: KONINKLIJKE NEDERLANDSE SHELL LABORATORIUM, AMSTERDAM

Royal Dutch Shell Laboratories, Amsterdam

ACRONYM:

See also NL.014

ADDRESS:
AMSTERDAM

Tel.:

AFFIL: Royal Dutch Shell Group

Title	PERSONNEL	Function
Dr	M.van der Waarden	i/c AP work

AP aims and actions:

Research on methods of analysis and means of abatement. Does AP work on behalf of entire Group of Shell companies.

Comments:

NL.013 Koninklijke Nedelandse Shell Laboratorium, Amsterdam 7.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
NL [redacted]	014	TND	A B C ~~D~~ E ~~F~~	01 ~~02~~ ~~03~~ 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 ~~32~~ 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	7.69	[redacted] S T

NAME: SHELL NEDERLAND RAFFINADERIJ, ROTTERDAM

Shell Netherlands Refinery, Rotterdam

ACRONYM:

See also NL.013

ADDRESS: Pernis,
ROTTERDAM.

Tel.: 010 - 31 91 11

AFFIL: Royal Dutch Shell Group

Title	PERSONNEL	Function
Dr Ir	G.S.van der Vlies	head of Technical Div.

AP aims and actions:

Measurement of pollution levels around refinery.

Comments.

NL.014 Shell Nederland Raffinaderij, Rotterdam 7.69

NL	[redacted] 015	IND	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	7.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: KONINKLIJKE NEDERLANDSE HOOGOVENS EN STAALFABRIEKEN

Royal Netherlands Iron and Steel Works

ACRONYM:

See also

ADDRESS:
IJMUIDEN.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Ir	W. Visser	i/c AP matters.

AP aims and actions:

Measurements of SO_2 NO_2 and vegetation damage around works.
Research into methods of abatement.

Comments:

NL.015 Koninklijke Nedelandse Hoogovens en Staalfabrieken 7.69

NL	[redacted] 016	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	7.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: STAATSMIJNEN

State Mines

ACRONYM:

See also

ADDRESS: Central Laboratory,
GELEEN.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr	P.G. Meerman	i/c AP matters.

AP aims and actions:

Measurement of pollution levels (mainly dust, SO_2 and NO_2) around area of own operations.
Makes some measurements for local municipalities.
Research into methods of abatement.

Comments:

NL.016 Staatsmijnen 7.69

NL [redacted]	017	ASN	A [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 [✓ 15]	[✓ 21] 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	7.69	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: STICHTING EUROPOORT/BOTLEK BELANGEN

Association of Europort-Botlek Industries

ACRONYM:

See also

ADDRESS: P O Box 7150,
ROTTERDAM.

Tel.: 010 - 16 18 00

AFFIL: see title

Title	PERSONNEL	Function
Ir	J.A.Beukers	chmn of Executive Cttee. spokesman for AP matters.
	A.Uyt den Bogaard	sec. of Executive Cttee.

AP aims and actions:

To keep informed of AP opinions and regulations, and to represent its members in local and national discussions of AP.

Is informed of short-term pollution levels by Rijnmond Authority.

Comments:

Is represented on AP Council (NL.001).

NL.017 Stichting Europoort/Botlek Belangen 7.69

NL [redacted]	018	SOC	A B C D E [✓ F]	01 02 03 04 05	11 12 13 [✓ 14] 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	7.69	[redacted]	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: VOORLICHTINGSCENTRUM VOOR NATUURBESCHERMING

Information Centre for Nature Conservation

ACRONYM:

See also

ADDRESS: Herengracht 540,
AMSTERDAM.

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

To promote environmental conservation.

Comments:

Private organisation.
Netherlands body for 1970 European Conservation Year.

NL.018 Voorlichtingscentrum voor Natuurbescherming 7.69

NL [redacted] 019 ASN A B/ C D E F/ 01 02 03 04 05 11 12 13 14 15/ 21/ 22 23 24 25 31 32 33 34 35 L M S/ 1 2 3/ 7.69 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: RAAD VAN NEDERLANDSE WERKGEVERSVERBONDEN: Bureau Milieu

Federation of Netherlands Employers: Office of Envtl Hyg.

ACRONYM:

See also

ADDRESS: Prinses Beatrixlaan 5,
P O Box 2110,
's-GRAVENHAGE.

Tel.: 070 - 81 41 71

AFFIL:

Title	PERSONNEL	Function
	J.E.Duintjer	president
Ir	J.A.Beukers	vice-president
	L.Verweij	secretary

AP aims and actions:

Information exchange for members regarding impact of AP regulations on industrial operations and employees.

Comments:

Is represented on AP Council (NL.001).

Maintains contact with Govt. and trade unions, etc.

NL.019 Raad van Ned. Werkgeversverbonden: Bureau Milieu 7.69

NL [redacted] 020 IND A B/ C D/ E F/ 01 02/ 03 04 05 11 12 13 14 15/ 21 22 23 24 25 31 32/ 33 34 35 L M/ S 1 2 3/ 7.69 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VERENIGING VAN DIRECTEUREN VAN ELECTRICITEITSBEDRIJVEN....*

Society of Directors of Power Stations....*

ACRONYM: VDEN-KEMA

See also

ADDRESS: Utrechtseweg 310,
ARNHEM.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Ir	A.J.Elshout	i/c AP matters.

AP aims and actions:

Determination of dust and SO_2 in the neighbourhood of power stations.

Comments:

Represented on AP Council (NL.001).

Apparently does not publish results.

*..EN KEURING VAN ELECTROTECHNISCHE MATERIALEN ...and Institute for Testing Electrotechnical Materials.

NL.020 Vereniging van Directeuren van Electriciteitsbedrijven... 7.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
NL	021	ACD	[✓ A] [✓ B] C D E F	01 [✓ 02] [✓ 03] [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 [✓ 32] [✓ 33] [✓ 34] [✓ 35]	L [✓ M] S	1 2 [✓ 3]		S	T

NAME: LECTORAT CHEMISCHE GEZONDHEIDSTECHNIEK

Faculty of Environmental Hygiene

ACRONYM:

See also

ADDRESS:
ENSCHEDE

Tel.:

AFFIL: Technische Universiteit,
Enschede.

Title	PERSONNEL	Function
Ir	H. Peters	lecturer
+ 5	staff	

AP aims and actions:

Education in AP technology through study of purification and preventive processes (eg. flue gas desulphurisation).

Comments:

New development; only faculty of this kind in NL.
Works in cooperation with Dept. of General Chemistry.

NL.021 Lect. Chemische Gezondheidstechniek, Enschede Univ. 7.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
NL	022	ASN	A [✓ B] C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	[✓ 21] [✓ 22] [✓ 23] 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	7.69	S	T

NAME: VERENIGDE NEDERLANDS GEMEENTEN

Association of Netherlands Municipalities

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL: see title

Title	PERSONNEL	Function

AP aims and actions:

AP advice for guidance of municipalities, esp. those with no Commission for AP etc.
Makes own or commissions surveys.

Comments:

NL.022 Verenigde Nederlands Gemeenten 7.69

NL 023 SOC A B C D E ~~F~~ 01 02 03 04 05 11 12 13 ~~14~~ 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 7.69 S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VERENIGING TEGEN LUCHTVERONTREINIGING IN EN OM HET NIEUWEWATERWEGGEBIED.

Assn. against AP in and around the New Waterway Area

ACRONYM:

See also

ADDRESS: Roemer Visscherstraat 25,
VLAARDINGEN.

Tel: 010 - 34 75 39

AFFIL:

Title	PERSONNEL	Function
Dr	G.J.Henning	director
	H. Boerma	secretary

AP aims and actions:

To press for clean air in the New Waterway area.

Comments:

Citizens' pressure group; very active in correspondence etc with Ministries etc...

Have requested access to Hinderwet for area to see if reasonable.

NL.023 Vereniging .... Nieuwewaterweggebied 7.69

NL 024 SOC A B C D E ~~F~~ 01 02 ~~03~~ 04 05 11 12 13 ~~14~~ 15 21 22 23 24 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 7.69 S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: AKTIECOMITÉ LEEFBARHEID AMSTERDAM EN NOORDZEEKANALGEBIED

Action Cttee for a Livable Env't in Amsterdam and ... Area

ACRONYM:

See also

ADDRESS:
AMSTERDAM.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr	J. W. Copius-Peereboom	chairman

AP aims and actions:

Conservation of the environment.

Comments:

Originally set up to fight proposal by Progil (France) to set up plant near Amsterdam.

Dr. C-P is a lecturer at Amsterdam Univ.

NL.024 Aktiecomité Leefbarheid Amsterdam... 7.69

NL [redacted]	025	TND	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 [✓ 32] 33 34 35	L M [✓ S]	1 2 [✓ 3]	7.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: VERENIGING KRACHTWERKTUIGEN

Society of Power Engines

ACRONYM:

See also

ADDRESS: Regentesselaan 2,
AMERSFOORT.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr	F.G.Fohr	lab. director

AP aims and actions:

Studies methods of abating pollution from engine exhausts.
Advises Fed. of Netherlands Employers (NL.019).

Comments:

NL.025 Vereniging Krachtwerktuigen, Amersfoort 7.69

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Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: RØYKSKADERÅDET

Smoke Control Council

ACRONYM:

See also N.005

ADDRESS: OSLO 1,
Osterhaugsgaten 11 III

Tel.: Oslo (01). 56.61.01.

AFFIL: Ministry of Industry
(Industridepartementet)

Title	PERSONNEL	Function
	T. Holmøy + 2 engineers + 2 secretaries	secretariat head (lawyer)

See over for Members of Council

AP aims and actions:
Handles licences for smoke-emitting works, in accordance with the Granneloven, with consideration of stack height, sulphur in fuel, smoke and particulates emissions, and effluent gas cleaning arrangements.
Appeals from decisions go to Min. of Industry.
Makes annual statistical reports to Min. of Ind.
Also has sub-group for control of Al industry.

Comments:
Set up by Royal Decree 22 Dec 61 for all Norway.
Six Members meet approx. monthly.
Members have other responsibilities.

N.001 Røykskaderådet 9.69

N.001 Røykskaderådet 9.69

Members (at 9.69) :-

S. Stray, chairman	MP and lawyer.
K. Halden, vice-chairman	Lawyer
P. B. Holmesland	Industriforbundet (Norsk Hydro)
Y. Gotås	Meteorological Inst., FFI.
R. Vollan	Veterinary director, State Department of Agriculture.
H. Tjønn	Med. officer for Lower Telemark.

+ W. Lindberg, tech. adviser, Inst. Hygiene, Oslo Univ.

Members of Aluminium industry sub-committee:-

Prof. Håkon Robak	Vestlands Forstlige Forskstasjon
Prof. Axel Lydersen	Norges Teknisk Høgskole, Trondheim
Prof. Johs L. Flatla	Norges Veterinaerhøgskole, Oslo

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N [redacted] 002 GOV A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 9.69 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: HELSEDIREKTORATET

Health Directorate

ACRONYM:

See also N.005 N.007

ADDRESS: OSLO 1,
Stortingsgaten 2.

Tel.: Oslo (01) 41.73.20

AFFIL: Min. Municipal Affs. & Labour
(Sosialdepartementet).

Title	PERSONNEL	Function
Mr	Karl Evang	general director
Dr	Fredrik Mellbye	national adviser for hygiene.

AP aims and actions:
To study and define health hazards of AP, and to advise local health councils (Helseråder).
Has just initiated medical advisory board for this purpose.

Comments:
Was responsible for the limitation on Pb in gasoline at 0.83 g/l.

N.002 Helsedirektoratet 9.69

N [redacted] 003 GOV A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 9.69 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VEGDIREKTORATET

Public Roads Administration

ACRONYM:

See also

ADDRESS: OSLO 1,
Schwensensgate 3.

Tel.: Oslo (01) 46.38.70

AFFIL: Min. of Transport
(Samferdseldepartementet).

Title	PERSONNEL	Function
Siv.Ing	Karl Olsen	director

AP aims and actions:
Deputed to recommend legislation on vehicle emissions.
Developed recommendations for diesel smoke limits (but surveillance is by traffic police and traffic inspectors).

Comments:

N.003 Vegdirektoratet 9.69

N [redacted]	004	NAT	A B̸ C D̸ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	V̸ M S	Y̸ 2 3	9.69	[redacted] 9 7
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: NORSK INSTITUTT FOR LUFTFORSKNING

Norwegian Institute for Air Pollution Research

ACRONYM: N I L U

See also

ADDRESS: KJELLER,
Postbox 15.

Tel.: Oslo (02).71.41.70

AFFIL: N T N F (N.008)
Natur Ressurs Utvalget
(Natural Resources Council)

Title	PERSONNEL	Function
Dr.	Brynjulf Ottar	Director (engineer)

(now: + 5P/4NP)
(by Jan 70, total 18 staff, incl an ecologist.)
(by mid-70, total 25 staff probably.)

Controlled by Advisory Board of 5 (see below).

AP aims and actions:

Plans 5 divisions to study:-
  identification & measurement of all AP
  meteorology and dispersion
  instrumentation for field work
  damage due to AP
  abatement measures
Plus systems analysis of effects of AP on ecological chain.
Plus atmospheric corrosion studies.
Partly will do own work, partly coordinate work of others (eg surveys by local authorities and industry to become National Survey)

Comments:

Set up mid-1969
Will become very important in AP work in Norway.
Intends close cooperation with OECD and other international bodies.
Budget (1970):- Kr 70m operating plus Kr 1m for equipment.
plus maybe Kr 80,000 from commissioned work.

N.004 Norsk Institutt for Luftforskning (NILU) 9.69 ✗

N.004 Norsk Institutt for Luftforskning 9.69

Advisory Board (elected every 2 years, half each year):-

Chairman	Groste	*head of tech. service, Oslo City Council
	F. Mellbye	*Helsedirektoratet
	T. Holmøy	Røykskaderådet
	E. Thurmann-Nielsen	*Norske Hydro
	Nordø	Meteorological Inst.
(reserve)	Bjor	Prof. at Agricultural Univ, Ås.

***Industry, communes and health must always be represented.**

N		005	GOV	A	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	Y	2	3	6.69		S	7
Country		No	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: LUFTFORENSNINGSUTVALGET

Air Conservation Committee

ADDRESS: KRISTIANSAND

Tel.:

AFFIL: Min. of Industry (Industridepartementet).

ACRONYM:

See also

Title	PERSONNEL	Function
	A. L. Gullestad	Chairman
	Håkon Børresen	Secretary
	+ 6 others	

AP aims and actions:

To consider what controls should be set for older plant (earlier than 1962), other pollutants (than smoke) and noise; the coordination between AP and other pollution.
To consider whether the Granneloven should be improved.
To consider what penalties are appropriate.
To propose any other appropriate control measures.
To reconsider the administrative organisation.

Comments:

Set up 21 July 1967.
First report (on oil firing) on 26 April 1969.
Final report expected 1970-71.
Any legislation that follows will be by Min. of Ind. as a framework law.

N.005 Luftforensningsutvalget 9.69 X

N.005 Luftforensningsutvalget 9.69

List of members :-

A. L. Gullestad	advocate in Kristiansand, (Min. of Justice), chairman
Svenn Landgraff	advocate, represents industry (Chmn:AP Gp. of Industry Assn.)
Øystein Heen	department head, Min. of Industry.
Tor Holmøy	head of secretariat, Røykskaderådet
Fredrik Mellbye	Helsedirektorat
Toralf Austin	department head, Min. of Agriculture
Olav. S. Nedenes	superintendent of planning, Min. of Municipal Affs. & Labour
Håkon Børresen	secretary

N	[redacted]	006	ACD	~~A~~ ~~B~~ C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ ~~33~~ 34 ~~35~~	~~L~~ M S	~~1~~ 2 3	9.69	[redacted] S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: GASSRENSEGRUPPE, SELSKAPET FOR INDUSTRIELL OG TEKNISK FORSKNING

Gas Purification Group, Soc. for Ind. and Tech. Research.

ACRONYM: (SINTEF)

See also

ADDRESS: TRONDHEIM,
Norges Tekniske Høgskole,

Tel.: Trondheim 30100

AFFIL:

Title	PERSONNEL	Function
Ir.	I. Nestås	Head (of Gas Purif. Group)
(SINTEF has ~7 technical staff)		

AP aims and actions:
Study and Development of industrial AP abatement means.
Development of instruments and techniques for flue gas analyses.
Makes analyses of flue gases (on commission by private interests and others: confidentially).

Comments:
Income from commissioned work, and by grant from NTNF.

N.006 Gassrensegruppe, SINTEF 9.69.

N	[redacted]	007	GOV	A ~~B~~ C D ~~E~~ F	01 ~~02~~ 03 04 05	~~11~~ 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	L M ~~S~~	1 2 3	9.69	[redacted] ~~S~~ ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: OSLO HELSERÅD

Oslo Municipal Health Committee

ACRONYM:

See also N.002

ADDRESS: OSLO 1
St. Olavs Gate 5

Tel.: Oslo (01).20.10.70.

AFFIL: Oslo Kommune
(Oslo Municipal Council)

Title	PERSONNEL	Function
Siv.Ing	Randulf Os	responsible for AP matters
	no other staff for AP	

AP aims and actions:
The Committee is responsible for community health in Oslo and district.
Increasingly takes initiative in AP control; sets limits on smoke, dust, odours through Sanitary Regulations, but no objective air quality standards.
Makes abatement orders; ultimate penalty is closure of plant, but not used so far.

Comments:
Is unique among local Health C'ttees in having man full-time on AP. He reports to one of the Medical Officers on the Råd.

N.007 Oslo Helseråd 9.69

N	[redacted]	008	NAT	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 ~~2~~ 3	9.69	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: NORGES TEKNISK-NATURVITENSKAPELIGE FORSKNINGSRÅD
Norwegian Technical and Natural Science Research Council

ACRONYM: N T N F
See also N.004

ADDRESS: BLINDERN,
Gaustadalléen 30

Tel.: Oslo (01).69.60.80

AFFIL: Min. of Industry
(Industridepartementet).
N I L U

Title	PERSONNEL	Function
	Robert Major	administrative director
30 members from Gov't (8) Industry (11) and Academic and Research Organisations (11). Working committee of 6.		

AP aims and actions:
Established 1965 own committee for AP reduction (Utvalg for Bekjempelse av Luftforurensninger). Now delegates AP responsibilities to N I L U (N.004).

Comments:
Founded 1964 by Min. of Ind., but is independent.

N.008 Norges Teknisk-Naturvitenskapelige Forskningsråd (NTNF) 9.69

N	[redacted]	009	ONE	~~A~~ B C D E F	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	9.69	[redacted]	~~S~~	~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: DR. WALTER LINDBERG

ACRONYM:
See also

ADDRESS: OSLO 3,
Hygienisk Institutt,
Gydas Vei 8

Tel.: Oslo (01).46.68.50

AFFIL: Oslo University.
Røykskaderådet (tech. adviser)
Nordforsk (Norwegian delegate)

Title	PERSONNEL	Function
		Assistant Prof. at Inst.

AP aims and actions:
Has made measurements of AP since 1956 (smoke, dust & SO_2) in towns and industrial areas.
Published lengthy report on these, identifying correlations with illness statistics.

Comments:
Has no present plans for new surveys

N. 009 Dr. Walter Lindberg 9.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
N [redacted]	010	GOV	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	9.69	[redacted]	S	T

NAME:	STATENS ARBEIDS TILSYN	ACRONYM:	
	State Labour Inspectorate	See also	N. 012

ADDRESS: OSLO 3,
Sørkedalsveien 10.

Tel.: Oslo (01).46.18.10

AFFIL: Min. Municipal Affairs & labour.

Title	PERSONNEL	Function
Dr.	A. Bruusgaard	director

AP aims and actions:
Inspection and enforcement of occupational hygiene regulations.

Comments:

N.010 Statens Arbeids Tilsvn 9.69

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
N [redacted]	011	NAT	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	9.69	[redacted]	S	T

NAME:	FORSVARETS FORSKNINGS INSTITUTT	ACRONYM:	F F I
	Norwegian Defence Reseach Establishment	See also	

ADDRESS: Kjeller 2007

Tel.: Oslo (02) 71.41.70

AFFIL: Min. of Defence

Title	PERSONNEL	Function
Mr.	Y. Gotås	i/c AP matters (meteorologist)

AP aims and actions:
Have made studies of atmospheric dispersion (in a specific valley) for knowledge of how AP could spread.

Comments:

N.011 Forsvarets Forsknings Institutt (FFI) 9.69

N [redacted]	012	NAT	A ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	9.69	[redacted]	S ~~7~~
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: YRKESHYGIENISK INSTITUTT, OSLO UNIVERSITET

Institute of Occupational Hygiene, Oslo University.

ACRONYM:

See also

ADDRESS: OSLO 3,
Gydas Vei 8.

Tel.: Oslo (01).46.68.50

AFFIL: Sosialdepartementet
(Min. Municipal Affairs & Labour)

Title	PERSONNEL	Function
Mr	J. Glømme	head of Institute

AP aims and actions:
Gives advice (on request) where workers' health may be affected by industrial fumes etc.

Comments:

N.012 Yrkeshygienisk Institutt, Oslo Universitet. 9.69

N [redacted]	013	ASN	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	~~21~~ 22 23 24 25	~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~	L ~~M~~ S	1 ~~2~~ 3	9.69	[redacted] S ~~1~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: DEN NORSKE INGIØRFORENING (TEKNISK KOMITÉ FOR BEKJEMPELSE..*)
The Norwegian Society of Engineers (Tech. Cttee. for AP)

ACRONYM: N I F

See also N.019

ADDRESS: OSLO 1
Kronprinsensgate 17

Tel.: Oslo (01).41.71.35

AFFIL:

Title	PERSONNEL	Function
	B. Slungaard	sec: AP abatement cttee
Siv.Ing	P. C. Jäger	sec: wkg. gp. on industrial AP. (is also engineer on secretariat of Røykskaderådet.)

AP aims and actions:

Consultative agency for industrial AP abatement.
To promote cooperation among Norwegian industries, institutes and individuals in this area.
Studies laws, both in Norway and abroad, to try to define best bases.
Keeps in touch with international technical developments
Working Group is an open forum for lectures and discussions.

Comments:

Set up in 1964.
Works in cooperation with Røykskaderådet.
Does not undertake practical work.

* Teknisk Komité for Bekjempelse av Luftforurensninger (The Tech. Cttee. for the Prevention of AP).

N.013 Den Norske Ingeniorforening (Teknisk Komité for Bekjempelse..) 9.69 ×

N.013 Den Norske Ingiørforening (Teknisk Komité for Bekjempèlse) 9.69

Chmn.	Siv.Ing. E. Thurmann-Nielsen	alternate: Siv.Ing.Chr. Frydenberg
	Over-Ing R. Calmeyer	Over-Ing. G. Harg
	Direktør F. C. Collin	Siv.Ing. A. Alertsen
	Prof. Aksel Lydersen	Dosent Olav Erga
	Tek. Sjef Bjørn Säther	Siv. Ing. T. Høverstad
	Forsk. Sjef Odd Sørhus	Siv. Ing. Hans G. Evju

Sec. Bjørn Slungaard.

N [redacted]	014	ASN	[✓ A] B C [✓ D] E F	01 [✓ 02] 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 [✓ 32] 33 34 35	L M [✓ S]	1 [✓ 2] 3	9.69	[redacted]	S [✓ T]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: NORSK DAMPKJEL FORENING

Norwegian Steam Boiler Owners Association

ACRONYM: N D F

See also

ADDRESS: OSLO 2,
Hoffsveien 13

Tel.: Oslo (01).65.92.90

AFFIL:

Title	PERSONNEL	Function
Siv.Ing	G. Hartmann	director
Siv.Ing	A. Steineger	chief engineer for AP
+ 1	P + 1 NP for AP	

AP aims and actions:

Studies of steam boiler and burner control measures to minimise AP.

Comments:

Have lab; make measurements for member co's, and other on commission.

Steineger attends Nordforsk (X.002) meetings (with Lindberg). Is trying to get survey instruments standardised through Nordforsk.

N. 014 Norsk Dampkjel Forening (NDF) 9.69

N [redacted]	015	ASN	A [✓ B] C D [✓ E] [✓ F]	01 02 03 04 05	11 12 13 14 [✓ 15]	21 22 23 24 25	[✓ 31] 32 33 34 35	L M [✓ S]	1 2 3	9.69	[redacted]	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: OLJESELSKAPERS UTVALG FOR BEHANDLUNG AV FORURENSNINGS PROBLEMER

Oil Compaines' Pollution Committee

ACRONYM:

See also

ADDRESS: Oil Company address of the current chairman

Tel.:

AFFIL:

Title	PERSONNEL	Function
	A. Solli (Esso)	Chairman

Term of service is 6 months; vice-chairman succeeds as chairman.

AP aims and actions:

To keep informed on all pollution problems associated with the operations of the oil industry. Based on a common consensus, the group will present for its respective oil companies recommendations for any necessary action.

Cooperating with Oslo Helseråd (N.007) in operation of urban pollution survey.

Comments:

Nine member oil companies:-

Chevron	Mobil
Esso	OK
Fina	Shell
Gulf	Texaco
Norske Brånselolje (BP)	

N.015 Oljeselskapers Utvalg for Behandlung Av Forurensnings Problemer 9.69

N [redacted] 018 SOC A B C ~~D~~ E ~~F~~ 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 ~~L~~ M S 1 ~~2~~ 3 9.69 [redacted] S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: TEKNISK KOMITÉ FOR FORURENSNINGER

Technical Committee for Pollution

ACRONYM:

See also

ADDRESS: BERGEN,
Bergen University.

Tel.: Bergen 12040

AFFIL:

Title	PERSONNEL	Function

Unofficial group of 20-25 in Bergen, including representatives from:-
- Technical School (secretariat)
- University (Profs. Utåker & Sodske)
- Materials Testing Laboratory
- Norske Esso
- Chr. Michelsens Institutt
- Bergen Helseråd

AP aims and actions:

To study and survey AP situation in Bergen, and to keep informed of developments.

Comments:

Set up in Sept. 1969.

N.018 Teknisk Komité for Forurensninger 9.69

N [redacted] 019 ASN A ~~B~~ C D E ~~F~~ 01 ~~02~~ ~~03~~ ~~04~~ 05 11 12 13 14 ~~15~~ 21 22 23 24 25 ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ L M S 1 2 3 9.69 [redacted] S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: NORGES INDUSTRIFORBUNDETS MILJØVÅRNUTVALG

Norwegian Industry Association's Environ'l Conservation Committee

ACRONYM:

See also N.013, 014, 015, 017

ADDRESS: OSLO 2
Drammehsveien 40,
P. O. Box 2435

Tel.: Oslo (01).56.43.90

AFFIL:

Title	PERSONNEL	Function
H.r.Adv	S. Landgraff *	Chairman (lawyer)
Siv.Ing	A. Sverdrup	Secretary

* member of Luftforensningsutvalget (N.005)

AP aims and actions:

To keep in touch with world-wide developments, research and abatement technology in environmental pollution.

To propose guidelines for industry/authority cooperation on env'l pollution problems, including recommendations for responsibility and finance.

To evaluate specifice pollution problems for recommended abatement methods.

To suggest possible research projects that the Industry Ass'n could propose.

Comments:

N.019 Norges Industriforbundets Miljøvårnutvalg 9.69

N	[redacted]	020	IND	[✓ A] B C [✓ D] E F	01 [✓ 02] [✓ 03] [✓ 04] 05	11 12 13 [✓ 14] [✓ 15]	21 22 23 24 25	31 32 [✓ 33] [✓ 34] [✓ 35]	L M [✓ S]	1 2 3	9.69	[redacted]	S	T
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: NORSK HYDRO-ELEKTRISK KVÄLSTOFAKTIESELSKAB *

(Norwegian Hydroelectrical Nitrogen Company)(chemical fertiliser)

ACRONYM: Norsk Hydro

See also N.022

ADDRESS: Head Office: OSLO 1,
Bygdøy Allée 2.
(Works at Porsgrunn)

Tel: Oslo (01).56.41.80

AFFIL:

Title	PERSONNEL	Function
Siv.Ing.	E. Thurmann-Nielsen	Chief Engineer

AP aims and actions:

Coordinates AP surveys etc. of all industries in own area (Porsgrunn-Skien).

Has surveyed this area on own initiative since 1957.

Comments:

*formal title is archaic; use acronym.
Cooperates with Skien Helseråd.

N.020 Norsk Hydro 9.69

N	[redacted]	022	GOV	A B C [✓ D] [✓ E] [✓ F]	01 02 03 04 05	[✓ 11] 12 13 [✓ 14] 15	21 [✓ 22] [✓ 23] 24 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	9.69	[redacted]	S	T
Country		No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: KONTROLLUTVALG FOR LUFTFORURENSNING I NEDRE TELEMARK

Inter-municipal Control Cttee. on AP in Lower Telemark

ACRONYM:

See also N.004 N.020

ADDRESS: SKIEN,
Holbergsgate 4

Tel: Skien 21914

AFFIL:

Title	PERSONNEL	Function
Dr.	J. Gjølberg	Secretary
Dr.	H. Tjønn	Medical Officer for area
Dr.	W. Lindberg	
Siv.Ing.	E. Thurmann-Nielsen	

AP aims and actions:

Have complete 2-3 yrs AP measurements (dust, smoke, SO_2) in the area.
Considering new programme, with Norsk Hydro and in co-operation with NILU (N.004)

Comments:

N.022 Kontrollutvalg for Luftforurensning i Nedre Telemark 9.69

N [redacted]	023	ONE	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	9.69	[redacted]	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: HÅKON ROBAK

ACRONYM:

See also N.001

ADDRESS: BERGEN,
Vestlandets Forstilige
Forsøkstasjon,
Stend.

Tel.: Bergen 76370

AFFIL:

Title	PERSONNEL	Function
prof.	at Westland Forestry Research Station	

AP aims and actions:
Studies of fluorine contamination in forests.

Comments:
Is member of Al control sub-Cttee of Røykskaderådet.

N.023 Håkon Robak 9.69

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SWEDEN - S

S [redacted] 001 GOV A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 S M S 1 2 3 11.69 [redacted] 5 7

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: MILJÖVÅRDSBEREDNINGEN

Environmental Conservation Advisory Committee

ACRONYM:

See also

ADDRESS: Mynttorget 1,
111 28 STOCKHOLM.

Tel.: 22.45.00

AFFIL.:

PERSONNEL

Title		Function
Minister	I. Bengtsson	president (Min. of Agric.)
Docent	H. Palmstierna	secretary
	+ 12 members (see Appx. 1 of Text).	

AP aims and actions:

To advise gov't on all conservation matters.
Preparation of policy and legal aspects of envtl. conservation.

Comments:

Established 1968.
Meets 4-6 times per year (when situation lecture presented).

11.69

S.001 Miljövårdsberedningen

S [redacted] 002 GOV A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 S M S 1 2 3 11.69 [redacted] 5 7

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: STATENS NATURVÅRDSVERK

National Nature Conservancy Office

ACRONYM:

See also

ADDRESS: Smidesvägen 5,
171 20 SOLNA 1. (Stockholm)

Tel.: 98.18.00

AFFIL.: Jordbruksdepartementet
(Min. of Agriculture)

PERSONNEL

Title		Function
Mr.	Valfrid Paulsson	director general
Dr.	Göran Persson	director AP Division
Mr.	Lars Lindau	head, Industrial section, +7
Dr.	O. v. Heidenstam	" municipal " +3
Mr.	Carl Erik Tryme	" noise " +3

AP aims and actions:

Coordinates AP work in Sweden; applies agreed policies.
Sets up expert groups to study specific problems.
Advises Gov't and industry, and assists local health boards and regional administrations.
Publishes annual report, and tech. reports on various industries.

Comments:

May propose but does not develop legislation.
Not an enforcement agency.
Total budget (personnel): SKr.6 m/Y.
Labs at Studsvik for WP till 7.69, now also AP.

11.69

S.002 Statens Naturvårdsverk

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S 003 307 A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S I 2 3 11.69 S I
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: KONCESSIONSNÄMNDEN FÖR MILJÖSKYDD
Concessions Board for Environmental Protection

ACRONYM:
See also S.002

ADDRESS:

Tel:

AFFIL: Jordbruksdepartementet
(Min. of Agriculture).

Title	PERSONNEL	Function
Mr.	Inge Lekman	chairman
(for	other members, see	over)

AP aims and actions:
Appeals Board for industrial operating licences, solely as concerns conservancy.

Comments:
Established 7.69; few cases yet.
4 members per session; meets according to need; selection by type of industry concerned.

S.003 Koncessionsnämnden för Miljöskydd

Session leaders	Members
Hovrättsrådet Inge Lekman, Stockholm (Chairman)	Vattenrättsdomare Lennart Persson, Umeå
Direktören Lars Gabrielson, Stockholm	Direktören Torsten Andersson, Stockholm
	Direktören Walter Wredenfors, Malmö
Landstingsmannen Sture Holmqvist, Svalöv	Riksdagsmannen Erik Tobé, Uppsala
	Direktören Karl-Erik Tengroth, Enebyberg
Överdirektören Sören Lane, Stockholm	Överinspektören Sven Andersson, Stockholm
	Professorn Lars Friberg, Stockholm
Överingenjören Sven Wetterhall, Örebro	Vattenrättsingenjören Bertil Sjölander, Umeå

S	[redacted]	004	GOV	A ~~B~~ ~~C~~ D E F	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	~~21~~ 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	11.69	[redacted]	S	~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: STATENS GIFTNÄMNDEN

National Poisons Board

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL: Socialdepartementet
(Ministry of Social Affairs).

Title	PERSONNEL	Function

AP aims and actions:

Defines hazards from AP and proposes appropriate control.
Advises local health authorities (Hälsovårdsnämnder).

Comments:

Decided Pb in gasoline policy;
advised on S in fuels.

S.004 Statens Giftnämnden

11.69

S	[redacted]	005	GOV	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	11.69	[redacted]	S	T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: STATENS VÄGVERK

Roads Administration

ACRONYM:

See also

ADDRESS: Drottning Kristinas Väg 25,
114 28 STOCKHOLM Ö.

Tel.:

AFFIL:
(Min. of Transport)

Title	PERSONNEL	Function
	Gerhardsson	chmn. Vehicle Emissions Gp.

AP aims and actions:

Studies vehicle emissions and prepares recommendations for controls.
Prepares and issues vehicle regulations (enforced by Bilprovning AB - gov't organisation - at annual insp.).

Comments:

S.005 Statens Vägverk

S	[redacted]	006	GOV	A	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	1	2	3		[redacted]	S	T
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME:	STATENS NATURVETENSKAPELIGA FORSKNINGSRÅD	**ACRONYM:**
	National Natural Science Research Council	**See also**

ADDRESS:
(Box 23 136),
104 35 STOCKHOLM.

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

S.006 Statens Naturvetenskapeliga Forskningsråd

S	[redacted]	007	NAT	~~A~~	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	~~22~~	23	~~24~~	25	31	32	~~33~~	34	~~35~~	~~L~~	M	S	~~1~~	2	3	11.69	[redacted]	~~S~~	~~T~~
Country		No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME:	FÖRSVARETS FORSKNINGSANSTALT Avdelning 1.	**ACRONYM:** FOA-1
	Research Institute of National Defence, Division 1.	**See also**

ADDRESS: Enköpingsvägen 150,
Ursvik.
(Box 416),
172 04 SUNDBYBERG 4.

Tel.: 28.28.80

AFFIL: Försvaretsdepartementet
(Min. of Defence).

Title	PERSONNEL	Function
Dr.	L-E. Tammelin	director of Division
Dr.	P. H. Lindgren	dep. " "
Dr.	G. Lindner	i/c chem.eng. work.
Dr.	C. Reuterswärd	
Dr.	O. Hertzberg	
Mr.	G. Ringqvist	

AP aims and actions:

Measurement of AP in low concns using FID GC/MS combinations (possibly automatic).
Mathematics of atmospheric dispersion.
Glass-fibre filters for removing aerosols and smokes.
Kinetics of oxidation of S-compound odours in pulp ind.
Catalysts for CO + NO_x reaction.

Publishes irregularly "Orienterar OM" summarising work; also reports and papers.

Comments:

Min. of Def. provides basic money, but some from civil contracts.
Secrecy only where essential.

One of 4 FOA Divns (see Text); ca 50 P/NP on AP, but growing.

S.007 Försvarets Forskningsanstalt, Avd. 1. 11.69

S	[redacted]	008	NAT	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	11.69	[redacted]	S ~~1~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: STATENS INSTITUT FÖR FOLKHÄLSEN, Omgivningshygieniska Avd.
Nat. Inst. for Public Health, Dept. of Environmental Hygiene

ACRONYM:
See also S.032

ADDRESS: Kgl. Solnaväg 1,
10401 STOCKHOLM 60.

Tel.: (08) 23.69.00

AFFIL: Socialdepartementet
(Min. of Social Affairs).

Title	PERSONNEL	Function
Prof.	L. Friberg	director (of Dept.).
Asst.Prof.	R. Rylander	assistant director
Dr.	T. Lindwall	odour problems

(about 9 man-years on AP; ca. S.Kr.1½m/Y).

AP aims and actions:

To provide Govt. and local health boards (Hälsorådvårdsnamndå) with pollutant/response information.
Development of techniques for assessing AP impacts on animals (lungs). Studies of synergism of pollutants, (SO_2 + C + MnO_2): cigarette smoke, and PbO_x on animals, chronic exposures.
Constitutional predisposition of monozygotic twins to coronary diseases in function of (inter alia) AP.
Consultancy health service on effects of AP, incl. noise.
Research (with Uppsala Met. Inst. - S.032) on odours around pulp plants.

Comments:

Can recommend criteria for AP but Nvv (S.002) would progress these.
Is only S Inst. teaching environ'l hygiene.
No connection with Karolinska Inst. of Occup. Hygiene at same address (though Dept. of Occup. Hygiene of the Nat. Inst. does coordinate with the Karolinska Inst.).

S.008 Statens Inst. för Folkhälsen, Omgivningshygieniska Avd. 11.69

S	[redacted]	009	NAT	A B C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 ~~2~~ 3	11.69	[redacted]	S ~~1~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME:
Swedish Meteorological and Hydrological Institute

ACRONYM: SMHI
See also S.032 X.001

ADDRESS:
... .. STOCKHOLM

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Alf Nyberg	director
Mr.	Björn Bringfelt	turbulence measurements

AP aims and actions:

Turbulence and plume rise measurements. Routine met. recording for AP surveys. Official body through which local authorities request AP surveys (see also Uppsala U. Met. Inst. - S.032).

Comments:

S.009 Swedish Meteorological and Hydrological Institute 11.69

S [redacted]	010	NAT	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	11.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: STATENS VÄXTSKYDDSANSTALT
National Plant Protection Establishment

ACRONYM:
See also

ADDRESS: Bergshamra (Fack 171 20),
171 72 SOLNA 7.

Tel.: (08) 85.01.20

AFFIL: Jordbruksdepartementet
(Min. of Agriculture).

Title	PERSONNEL	Function
Prof.	I. Granhall	director
Dr.	D. Lihnell	botany dept. (AP work).
Mr.	N-O. Johansson	" "

AP aims and actions:

Studies of plant damage by AP (esp. to distinguish from action of pests etc).
Research into accumulation of $SO_4^=$ in plants, to map the incidence of SO_2 AP.

Publishes "Växtskydds-Notiser" 6/yr. (Spcl. issue on AP in 1965.)

Comments:

Service for horticulture & agric.
Dr. L. is about to retire; future work not decided.

S.010 Statens Växtskyddsanstalt 11.69

S [redacted]	011	ASN	A [✓ B] C D E [✓ F]	01 [✓ 02] [✓ 03] [✓ 04] [✓ 05]	11 12 13 14 [✓ 15]	[✓ 21] 22 23 24 25	[✓ 31] [✓ 32] [✓ 33] [✓ 34] [✓ 35]	[✓ L] M S	[✓ 1] 2 3	11.69	[redacted] [✓ S] [✓ T]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: SVERIGES INDUSTRIFÖRBUND
Federation of Swedish Industries

ACRONYM:
See also S.012 S.016

ADDRESS: Storgatan 19,
(Box 5501)
114 85 STOCKHOLM 5.

Tel.: (08) 63.50.20

AFFIL: 23 individual industry assns.
(see text Appendix).

Title	PERSONNEL	Function
Mr.	Ingmar Eidem	president
Mr.	Axel Iveroth	head of secretariat
Mr.	Ch. Leijonhufvud	liaison with Gov. bodies &c.
Mr.	Torsten Andersson	chmn. A & WP cttee.
Mr.	Bo Helmerson	sec. for AP matters.

AP aims and actions:

To ensure the politic of AP control is understood by ind and that industry viewpoint is by various Gov. boards.
Well-staffed to discuss legal, economic and technical aspects of AP; well-represented from industry in S; has prepared summary of implications of new AP law.
Publishes monthly "Tidskrift" and "Circuläre".

Comments:

Practical work largely done by IVL (S.012) which 50% supported by Ind-förbund.
Assn. of Metalworking Inds. has own AP study group and labs (S.016); does some work for Ind-förbund.

S.011 Sveriges Industriförbund 11.69

S	[redacted]	012	NAT	~~A~~ ~~B~~ C D E F	01 ~~02~~ ~~03~~ ~~04~~ ~~05~~	11 12 13 14 ~~15~~	21 ~~22~~ 23 24 25	31 ~~32~~ ~~33~~ ~~34~~ ~~35~~	~~L~~ M S	~~1~~ 2 3	11.69	[redacted] ~~S~~ ~~1~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: INSTITUTET FÖR VATTEN- OCH LUFTVÅRDSFORSKNING

Water and Air Pollution Research Laboratory

ACRONYM: IVL

See also S.011,013,017,034

ADDRESS:
Drottning Kristinas Väg 47,
114 28 STOCKHOLM Ö.
(Djurgårdsgatan 26,
(412 .. Göteborg V.
(031)42.01.60

Tel.: (08)22.25.40

AFFIL:
Jordbruksdepartementet
(Min. of Agriculture).
Industriförbund (S.011).
IVL.AB (S.013).

Title	PERSONNEL	Function
Dr.	S. Freyschuss	director
Mr.	L. Bruneau	deputy dir. (info. & educ'n)
Prof.	C. Brosset	consultant for AP (Göteborg)
Civ.Ing	B. Steen	(total 5 on AP research)
Civ.Ing	P. Glennfelt	

AP aims and actions:

Research and investigations into sources, effects and abatement of industrial A & WP (mostly WP and management at Stockholm; AP at Gothenburg); much of work carried out by Univs, scientific Insts, and industrial labs.

Advises on A & WP on various national etc cttees.

Current research: removal of HCl from PVC burning; ambient measurement techniques for H_2S etc; routine methods for unburned material in stack gases.

Publishes Q'ly news-sheet 'IVL-nytt', tech reports, and in journals. Organises annual conference.

Comments:

Financed equally by Min. of Agric. and Industriförbund (S.011). In return for Govt support, organises self-sustaining consultancy body IVL.AB (S.013).

Approx. S.Kr.2m total budget in '69. 15% (—> 33%) effort on AP.

See booklet for organisational details.

S.012 Institutet för Vatten- och Luftvårdsforskning (IVL) 11.69

S	[redacted]	013	ASN	~~A~~ B C ~~D~~ E F	01 ~~02~~ ~~03~~ ~~04~~ ~~05~~	11 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	11.69	[redacted] ~~S~~ ~~1~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: INDUSTRINS VATTEN- OCH LUFTVÅRD AB

Industrial Water and Air Pollution Control Co.

ACRONYM: IVL.AB

See also S.012 S.017

ADDRESS:
Djurgårdsgatan 26,
412 .. GÖTEBORG V.

Tel.: (031) 42.01.60

AFFIL: IVL (S.012).

Title	PERSONNEL	Function
Dr.	S. Freyschuss	managing director
Prof.Dr	C. Brosset	director for AP
Mr.	G. Larsson (+2P/1NP)	
Ing.	T. Troeng	director for WP (+16 P.NP)

AP aims and actions:

Advises and undertakes A & WP work on commission from industry and (more recently) local air conservation boards (Miljövårdsnamnden).

Comments:

Head office and most WP work in Stockholm (see IVL S.012 for address).

S.013 Industrins Vatten- och Luftvård AB (IVL.AB) 11.69

S [redacted]	014	ASN	[✓ A] [✓ B] C D E F	01 [✓ 02] [✓ 03] [✓ 04] [✓ 05]	11 12 13 14 [✓ 15]	21 22 23 24 25	[✓ 31] [✓ 32] [✓ 33] [✓ 34] [✓ 35]	[✓ L] M S	1 [✓ 2] 3	11.69	[redacted] [✓ S] [✓ T]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: INGENJÖRSVETENSKAPSAKADEMIEN

Academy of Engineering Sciences

ACRONYM: TVA

See also

ADDRESS: Grev Turegatan 14,
102 42 STOCKHOLM 5.
(Box 5073)

Tel.: 22.07.60

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Discussions and investigations of problems of AP.
Prepares and publishes advisory material.

Comments:

Autonomous combination of industrial and academic experience.
Has own research station; also sponsors work at various insts.

S.014 Ingenjörsvetenskapsakademien

11.69

S [redacted]	015	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME:

Swedish Society of Chemical Engineers

ACRONYM:

See also

ADDRESS: Malmskillnadsgatan 48 A,
103 43 STOCKHOLM 40.
(Box 40 133)

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Gösta Lindner	chairman

AP aims and actions:

Comments:

S.

Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
S	[redacted]	.016	ASN	A ~~B~~ C D E ~~F~~	01 02 03 ~~04~~ 05	11 12 13 14 ~~15~~	21 22 23 ~~24~~ 25	31 32 ~~33~~ ~~34~~ 35	L ~~M~~ S	1 ~~2~~ 3	11.69	[redacted]	S	T

NAME:

Association of Metal-working Industries

ACRONYM:

See also S.011, S.012

ADDRESS:
... .. GÖTEBORG.

Tel.:

AFFIL: Sveriges Industriförbund (S.011).

Title	PERSONNEL	Function
Overing.	K. E. Kinnemar	Alfa-Laval AB, 631 01 ESKILSTUNA. (Tel: (016)13.72.00)
Dr.	Sven Rydholm	Billeruds AB, 661 00 SÄFFLE. (Tel: (0533)825.00)

AP aims and actions:

Undertakes studies of AP in industry; prepares advisory papers.

Comments:

Lab. in Gothenberg also does AP work for Ind-förbund.

S.016 Assn. Metalworking Industriel 11.69

11.69

Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			
S	[redacted]	017	ASN	~~A~~ ~~B~~ C ~~D~~ E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ ~~25~~	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	11.69	[redacted]	~~S~~	~~T~~

NAME: SVENSKA SILIKATFORSKNINGSINSTITUTET

Swedish Silicate Research Institute

ACRONYM:

See also S.013 S.034

ADDRESS: Gibraltargatan 5 J,
412 58 GÖTEBORG.

Tel.: (013) 18.48.57

AFFIL:

Title	PERSONNEL	Function
Dr.	C. Brosset	director
Mr.	A. Åkerström	X-ray analysis
Ing.Mrs	A. Johansson	survey analyses

(aggregate of 3P:2NP for AP).

AP aims and actions:

AP ambient survey service to cities and to industry on commission (emissions measurements by IVL.AB - S.013).
33 cities in S surveyed to date; reports confidential to appropriate Helsovårdsnämnden, but may be collated and published by St. Nvv. (S.002).
Investigations of long-distance changes in AP.

Comments:

Equipment and expertise for silicate research extended to AP work (esp. sensitive X-ray anal methods for metals).
Nvv will probably coordinate this AP work in future.
Prof. Brosset is involved with many other AP activities - see Text.

S.017 Svenska Silikatforskningsinstitutet 11.69

S [redacted]	018	ASN	[✓ A] [✓ B] C D E F	[✓ 01] [✓ 02] 03 04 05	11 12 13 14 [✓ 15]	21 22 23 24 25	[✓ 31] 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	11.69	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: SVENSKA PETROLEUM INSTITUTET
Swedish Petroleum Institute

ACRONYM: SPT

See also

ADDRESS: Sveavägen 21,
111 34 STOCKHOLM C.

Tel.: 23.58.00

AFFIL: Represents all oil co's in S.

Title	PERSONNEL	Function
Mr.	Rolf af Klintberg	director
Prof.	Schjånberg	chmn tech. cttee (for AP)

AP aims and actions:
Represents oil co's views in negotiations with Naturvårdsverk (S.002) on sulphur contents of fuels and Pb in gasoline.
Supports research in some Institutes.
Coordinates AP information etc for member co's.

Comments:

S.018 Svenska Petroleum Institutet 11.69

S [redacted]	019	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: JERNKONTORET
Ironmasters' Association

ACRONYM:

See also

ADDRESS: Kungsträdsgardsgatan 10,
111 87 STOCKHOLM C.
(Fack 1721).

Tel.: 22.46.20

AFFIL:

Title	PERSONNEL	Function
	R. Sundén	director
	S. Lindgren	chmn, cttee on dust & fumes.

AP aims and actions:

Comments:

S.019 Jernkontoret

S [redacted] 020 TND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: AB SVENSKA ALUMINIUMKOMPANIET
Swedish Aluminium Co. Ltd.

ACRONYM:

See also

ADDRESS: Kungsgatan 28,
103 60 STOCKHOLM 3.

Tel.: 24.31.40

AFFIL:

Title	PERSONNEL	Function
Dr.	E. M. Brenner	

AP aims and actions:

Comments:

S.020 AB Svenska Aluminiumkompaniet

S [redacted] 021 TND A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: AB ATOMENERGI
The Atomic Energy Company

ACRONYM:

See also

ADDRESS: Studsvik,
NYKÖPING.

Tel.:

AFFIL:

Title	PERSONNEL	Function
	H. Brynhildsson	director
	S. Bergström	

AP aims and actions:
Studies of dispersion from ground-level sources.
Instrumentation for monitoring air-borne radioactivity.

Comments:
National vehicle exhaust emissions research lab. located here.

S.021 AB Atomenergi 11.69

S [redacted] 031 ACD A ~~B~~ C D E F ~~01~~ ~~02~~ 03 04 05 ~~11~~ ~~12~~ 13 14 15 21 ~~22~~ 23 ~~24~~ 25 31 32 33 34 35 ~~L~~ M S ~~1~~ ~~2~~ 3 11.69 [redacted] ~~S~~ ~~F~~

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: STOCKHOLMS UNIVERSITET, Inst. för Analytisk Kemi

Stockholm University, Institute for Analytical Chemistry

ACRONYM:

See also

ADDRESS: Roslagsvägen 90,
104 05 STOCKHOLM 50.

Tel: 34.05.80

AFFIL:

Title	PERSONNEL	Function
Dr.	Gunnar Widmark	director
	Leif Bergstedt) Anders Laveskog)	mass spectrometry
	Lars Strömberg	polynuclear aromatics
	Eva Bergstedt	tobacco smoke/IR.
	Kerstin Widmark	GC analysis
	Bengt Larsson	expired air analysis
	+ various students	

AP aims and actions:

Analytical techniques and measurements of urban AP and AP residues in biological systems: pesticide residues, polynuclear aromatics, organic Pb, expired air anal., lipids, GC analysis of tobacco smoke. Particularly concentrates on combination of analytical tools: eg. MS + IR + GC (+ atomic absorption + electrophoresis), coordinated through a computer.

Publishes widely in tech. journals.

Comments:

Funds from commissioned work from Industry: students are paid. (St. Naturvårdsverk funding now ceased.)

S.031 Stockholms Universitet, Inst. för Analytisk Kemi 11.69

S [redacted] 032 ACD ~~A~~ ~~B~~ C ~~D~~ E F 01 02 03 04 05 11 12 13 14 15 21 ~~22~~ 23 ~~24~~ ~~26~~ 31 32 33 34 35 L M ~~S~~ ~~1~~ 2 3 11.69 [redacted] ~~S~~ ~~F~~

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UPPSALA UNIVERSITET, Meteorologiska Institutionen

Uppsala University, Meteorological Department

ACRONYM:

See also S.008, 009, 017

ADDRESS: Box 516,
751 20 UPPSALA 7.

Tel:

AFFIL:

Title	PERSONNEL	Function
Prof.	G. Liljekvist	director
Dr.	Ulf Högström	resp. for AP work.
	+ 1 student on AP	

AP aims and actions:

Mathematics of dispersion of various met. conditions; development of std. method for stack height calculat'n.

Has made SO_2/smoke surveys in >12 Swedish towns to identify major sources (with Brosset - S.017).

Studies of long-distance trajectories and persistence of SO_2 in atmosphere.

Working with Statens Inst. för Folkhälsen (S.008) on organoleptic assessment of pulp industry odours.

Comments:

Funds from Min. of Ed'n, Naturvårdsverket, Swedish Fed. for Sci.Res. & Ind Devel., and via Swedish Met. & Hydrol.Inst. from local authorities for investigations and st'k height calculations.

Högström is consultant for Luftvårdsbyrån of St. Naturvårdsverket - (S.002).

S.032 Uppsala Universitet, Meteorologiska Institutionen 11.69

S [redacted] 033 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 11.69 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UPPSALA UNIVERSITET, Växtbiologiska Institutionen
Uppsala University, Division of Plant Biology

ACRONYM:

See also

ADDRESS: 751 20 UPPSALA 7.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	E. Skye	

AP aims and actions:

Effects of AP on plants, esp. lichens.

Comments:

Not clear how much longer this work will continue.

S.033 Uppsala Universitet, Växtbiologiska Institutionen 11.69

S [redacted] 034 ACD A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 11.69 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: CHALMERS TEKNISKA HÖGSKOLA, Inst. för Oorganisk Kemi
Chalmers Tech. University, Inst. for Inorganic Chemistry

ACRONYM:

See also S.012 S.017

ADDRESS: Sven Hultingsgatan,
412 .. GÖTEBORG 5.

Tel.: (031) 81.01.00

AFFIL:

Title	PERSONNEL	Function
Prof.	Cyrill Brosset	
Civ.Ing	G. Musold	surveys
Ing.	K. Andreasson	particulates

AP aims and actions:

Assists with surveys for local authorities and industry.
Operates OECD 'remote station'.
Development of particulates sampling techniques.

Premises and apparatus used by IVL (S.012) research men.

Comments:

Prof. Brosset has mainly teaching responsibility here.

AP funds from St. Nvv. (S.002)(which is expected to take over the OECD station soon), local authorities and industry (S.Kr.280/mo/station)

S.034 Chalmers Tekniska Högskole, Inst. för Oorganisk Kemi 11.69

S	035	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME:
Gothenburg University, Inst. for Nuclear Chemistry

ACRONYM:

See also S.017

ADDRESS:
412 .. GÖTEBORG.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	Jan Rydberg	

AP aims and actions:

Development of sensitive analytical procedures.

Comments:

Cooperates with Prof. Brosset (see S.017).

S.035 Göteborgs Universitet, Inst. för Kernkemi

S	036	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: KUNGLIGA SKOGSHÖGSKOLAN, Institutet för Skogsbotanik
Royal School of Forestry, Institute for Forest Botany

ACRONYM:

See also

ADDRESS: Roslagsvägen ,
104 05 STOCKHOLM 50.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	E. Björkman	director

AP aims and actions:

Studies of effects of SO_2 and H_2S on pine forest economy.
Interaction between AP and plant nutrition.

Comments:

S.036 Kungliga Skogshögskolan, Institutet för Skogsbotanik 11.69

S	037	ACD	A	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	1	2	3		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date		

NAME: KUNGL. TEK. HÖGSK., Inst.f.Uppvärmnings- och Ventil-teknik

Royal Tech. H-Sch., Inst.f.Heating and Ventilation Technol.

ACRONYM:

See also

ADDRESS:

STOCKHOLM 70.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	J. Rydberg	

AP aims and actions:

Studies of size distribution of particulates (soot) and effectiveness of spray washing.

Comments:

S.037 Kungl. Tek. Högsk.. Inst.f.Uppvärmnings- och Ventil-teknik 11.69

S	038	ACD	A	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	S	1	2	3		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date		

NAME: KUNGLIGA TEK. HÖGSK., Inst. för Värmeteknik

Royal Tech. H-Sch., Inst. for Heating Technology

ACRONYM:

See also

ADDRESS:

STOCKHOLM 70.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	C. Allander	director

AP aims and actions:

Problems of sampling and sizing particulates.

Comments:

S.038 Kungl. Tek. Högsk., Inst. för Värmeteknik 11.69

S [redacted]	039	ACD	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		[redacted]	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: KUNGL. TEK. HÖGSK., Institutet för Oorganisk Kemi
Royal Tech. H-Sch., Institute of Inorganic Chemistry

ACRONYM:

See also

ADDRESS:
100 44 STOCKHOLM 70.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	O. Stelling	director

AP aims and actions:

Effects of additives on combustion of fuel oils and reduction of SO_2 in flue gases.

Comments:

S.039 Kungl. Tek. Högsk., Inst. f. Oorganisk Kemi 11.69

SWITZERLAND (CONFEDERATIO HELVETICA) - CH

CH [redacted] 001 NAT A̸ B̸ C D E F 01 02 03 04 05 11̸ 12̸ 13̸ 14̸ 15 21̸ 22 23 24 25 31 32 33 34 35 L̸ M S 1̸ 2 3 4.70 [redacted] S̸ 1̸
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: EIDGENÖSSISCHE KOMMISSION FÜR LUFTHYGIENE
COMMISSION FEDERALE DE L'HYGIENE DE L'AIR
Federal Clean Air Commission

ACRONYM: EKL/CFHA
See also CH.002 CH 003

ADDRESS: Bollwerk 27
3011 BERN

Tel.:

AFFIL:
Departement des Innern,
(Min. of Interior).

Title	PERSONNEL	Function
Prof Dr.	D. Högger	Chairman (see also CH.004)
Ing.	B. Handschin	Secretary

Secretariat from Eidg. Gesundheitsamt (CH.002).
For membership, see text Appendix.

AP aims and actions:

To advise government in matters of air conservation and to make proposals for controls and limits
Standardisation of equipment and techniques
Preparation of 'Richtlinien' (Codes of Practice) and other recommendations.

Comments:

Powers very limited by present national Constitution - see text.
Budget (S.Fr. 200 000 in 1970) supports members' research in their own labs

CH.001 Eidgenössische Kommission für Lufthygiene 4.70

CH [redacted] 002 GOV A̸ B̸ C̸ D̸ E F 01 02 03 04 05 11̸ 12 13 14 15 21̸ 22̸ 23 24̸ 25 31 32 33 34 35 L M̸ S 1̸ 2 3 4.70 [redacted] S 1̸
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: EIDGENÖSSISCHE GESUNDHEITSAMT
SERVICE FÉDÉRAL DE L'HYGIÈNE PUBLIQUE
Federal Office of Public Health

ACRONYM:
See also

ADDRESS: Bollwerk 27
3011 BERN

Tel.: (031) 22.60.91

AFFIL:
Departement des Innern
(Min. of Interior).

Title	PERSONNEL	Function
Dr.	A Sauter	director
Dr.	J P. Perret	asst director
Ing.	B. Handschin	section hd./Sec. of EKL (CH.001).
	G. Nidecker	tech. coordinator for AP and contacts with EKL.

AP aims and actions:

Responsible for elaboration of AP regulations (in terms of 'immissions') (but see text).
Undertaking smoke/SO_2 survey in Bern.

Comments:

The EKL (Clean Air Commission) (CH.001) is attached to this body for administration and budgetting.

CH.002 Eidgenössische Gesundheitsamt 4.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
CH [redacted]	003	GOV	~~A~~ B C D ~~E~~ F	01 02 03 04 05	~~11~~ 12 13 14 15	~~21~~ 22 23 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	4.70	[redacted]	S /

NAME: BUNDESAMT FÜR INDUSTRIE, GEWERBE UND ARBEIT
OFFICE FEDERAL DE L'IND., DES ARTS ET METIERS, ET DU TRAVAIL
Federal Office for Industry, Commerce and Labour

ACRONYM: BIGA/OFIAMT

See also CH.004 CH.005

ADDRESS: Bundesgasse 8,
3003 BERN.

Tel.:

AFFIL: Volkswirtschaftdepartement
(Min. of Economics).

Title	PERSONNEL	Function
Dr.	M. Holzer	director
Dr.	K. Wegmann	deputy director

AP aims and actions:

Coordination of work of Arbeitsärztlicher Dienst (Occupational Hygiene Service - CH.004) and of Eidgenössische Arbeitsinspektorate (Federal Labour Inspectorate - CH.005).

Responsible for application of Labour Laws (including their environmental aspects).

Comments:

CH.003 Bundesamt für Industrie, Gewerbe und Arbeit (BIGA) 4.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
CH [redacted]	004	GOV	~~A~~ B C ~~D~~ E F	01 02 03 04 05	~~11~~ ~~12~~ 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L ~~M~~ S	~~1~~ 2 3	4.70	[redacted]	S /

NAME: ARBEITSÄRZTLICHER DIENST (des BIGA)
Occupational Hygiene Service (of the Bundesamt für Industrie)

ACRONYM:

See also CH.003 CH.005

ADDRESS: Kreuzstrasse 26,
8008 ZÜRICH.

Tel.: (051) 47.04.80

AFFIL: (Bundesamt für Industrie...
(Office Federal de l'Industrie.
(CH.003)

Title	PERSONNEL	Function
Prof.Dr	D. Högger	director of AP Department

AP aims and actions:

Surveys of ambient air quality in and around factories, esp. at request of Arbeitsinspektorat (CH.005).

Measurements of CO HC and Pb in Zürich and of effects on humans and plants. Results published in 'Präventiv Medizin'. (See also CH.012).

Comments:

Originally part of Zürich Labour Inspectorate (CH.005); independent group since 1958.

Dr. Högger is chairman of Clean Air Commission (EKL - CH.001).

CH.004 Arbeitsärztlicher Dienst (des BIGA) 4.70

CH	005	GOV	A B C D [✓ E] F	01 02 [✓ 03] [✓ 04] 05	[✓ 11] 12 13 14 15	21 22 [✓ 23] 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	4.70	S [✓ L]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: EIDGENÖSSISCHE ARBEITSINSPEKTORAT
SERVICE FEDERAL DE L'INSPECTION DU TRAVAIL
Federal Labour Inspectorate

ACRONYM:

See also CH.003 CH.004

ADDRESS: Four Districts: see over

Tel.:

AFFIL: Bundesamt für Industrie..
Office Fédéral de l'Industrie.
(CH.003)

Title	PERSONNEL	Function
	see over	

AP aims and actions:
Inspection of working conditions, including hygiene: working with Cantonal Inspectors and also Arbeitsärztlicher Dienst (Occup. Hyg. Service - CH.004).

Comments:
Usual origin of requests to Arbeitsärztlicher Dienst for survey of AP in or around works.

CH.005 Eidgenössische Arbeitsinspektorat 4.70 ×

CH.005 Eidgenössische Arbeitsinspecktorat 4.70

Kreis (District)	Address	Director
I	21 Petit Chêne, 1003 LAUSANNE	Ph. de Weisse
II	Bahnhofstrasse 78, 5001 AARAU	K. Stäubli
III	Utoquai 37, 8008 ZÜRICH	E. Bitterli
IV	Neugasse 30, 9001 ST. GALLEN	R. Beinacher (Dr.)

CH [redacted] 006 NAT A ~~B~~ C ~~D~~ E F ~~01~~ 02 ~~03~~ ~~04~~ ~~05~~ 11 12 13 14 15 21 ~~22~~ 23 24 25 31 32 33 34 35 ~~L~~ M S ~~1~~ 2 3 4.70 [redacted] S ~~T~~
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: EIDGENÖSSISCHE MATERIALPRÜFUNGS- UND VERSUCHSANSTALT
Federal Materials Testing and Experimental Station

ACRONYM: EMPA
See also

ADDRESS: Ueberlandstrasse 129
8600 DÜBENDORF (Zürich)

Tel.: (051) 85.81.[illegible]

AFFIL.:

Title	PERSONNEL	Function
Prof.	Ehrismann	director
Dr.	W. Jutzi	Industrial Waste Dept.
	Lauber	Acoustics Dept.
Dr.	K. Bauholzer	Lubricants & Engine Tests Dept.
Dr	Gartenmann	Fuels Dept. Heating Equip't Dept.

AP aims and actions:

Undertake measurements (eg. of vehicle emissions or of industrial emissions) at request of EKL (CH.001) or of local or federal administrations. Official referee.
Have worked with Saurer (CH.027) on diesel smoke methods and have evaluated vehicles against various test cycles and proposed limits on emissions.

Comments:

About 10 P/NP on AP

CH.006 Eidgenössische Materialprüfungs- und Versuchsanstalt 4.70

CH [redacted] 007 NAT ~~A~~ B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 ~~24~~ 25 31 32 33 34 35 L M S 1 2 3 4.70 [redacted] S T
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: EIDGENÖSSISCHE METEOROLOGISCHE ZENTRALANSTALT
Federal Central Meteorological Establishment

ACRONYM: MZA
See also

ADDRESS: Krähbühlstrasse 58,
8044 ZÜRICH

Tel.: (051) 32.79.70

AFFIL.:

Title	PERSONNEL	Function
Dr.	R. Schneider	director

AP aims and actions:

Meteorological aspects of the dispersion of AP.
Has developed stack height calculation methods which also allow for valley situations.

Comments:

Many of studies made at Aerologische Station at Payerne.

CH.007 Eidgenössische Meteorologische Zentralanstalt 4.70

CH	[redacted]	008	NAT	A̸ B C D̸ E F	01 02 03 04 05	11 1̸2 13 14 15	21 22 23 24 25	31 32 33 34 35	L M̸ S	1 2̸ 3	4.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: EIDG. AGRIKULTURCHEMISCHE VERSUCHSANSTALT *
STATIONS FÉDÉRALES D'ESSAIS AGRICOLES
Federal Agro-chemical Research Stations

ACRONYM:

See also

ADDRESS: 3097 LIEBEFELD (Bern)

Tel.: (031) 53.00.37

AFFIL: Volkswirtschaftdepartement
(Min. of Economies)

Title	PERSONNEL	Function
Dr.	E. Bovay	director
Ing.Agr.	A. Bolay	dep. director

AP aims and actions:

Studies of effects of F SO_2 on plants.
Measurements of Pb in roadside crops; measurements of F around aluminium works and effects on apricots.

Comments:

* also at:

1260 CHANGINS-SUR-NYON
(tel: (022) 61.42.81)

+ 2 - 3 other outstations

Dr. Bovay and Ing. Bolay are members of EKL (CH.001).

CH.008 Eidg Agrikulturchemische Versuchsanstalte 4.70

CH	[redacted]	009	NAT	A̸ B̸ C D E F	01 02 03 04 05	11 1̸2 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S̸	1 2̸ 3	4.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: EIDGENÖSSISCHE ANSTALT FÜR DAS FORSTLICHE VERSUCHSWESEN

Federal Establishment for Forestry Research

ACRONYM:

See also

ADDRESS: 8903 BIRMENSDORF (Zürich).

Tel.: (051) 95.44.11

AFFIL: Departement des Innern
(Ministry of Interior)

Title	PERSONNEL	Function
Prof.	A. Kurth	director
Dr.	Th. Keller	i/c AP work

AP aims and actions:

Exposure studies of the effects of SO_2 on conifers.

Comments:

Expanded programme planned for 71.

Dr. Keller is a member of EKL (CH.001).

CH.009 Eidgenössische Anstalt für das Forstliche Versuchswesen 4.70

CH [redacted]	010	NAT	A [✓ B] [✓ C] D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] 32 33 34 35	L [✓ M] S	1 [✓ 2] 3	4.70	[redacted]	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: SCHWEIZERISCHE NORMEN VEREINIGUNG
ASSOCIATION SUISSE POUR LA NORMALISATTON
Swiss Standards Association

ACRONYM: SNV

See also

ADDRESS: Kirchenweg 4
8032 ZÜRICH

Tel: (051) 47.69.70

AFFIL:

Title	PERSONNEL	Function
Dr.	K Bauholzer	chairman of Wkg. Gp.102*

AP aims and actions:

Standardisation of product specifications, including fuel quality.

Comments:

* Wkg. Gp. No.102 for petroleum products.

CH.010 Schweizerische Normen Vereinigung 4.70

CH [redacted]	011	MUN	[✓ A] B C D [✓ E] F	01 [✓ 02] 03 04 05	[✓ 11] 12 13 14 15	21 22 23 [✓ 24] 25	31 [✓ 32] 33 34 35	L [✓ M] S	1 [✓ 2] 3	4.70	[redacted]	S [✓ T]
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: GESUNDHEITSINSPEKTORAT DER STADT ZÜRICH

City of Zürich, Health Inspectorate

ACRONYM:

See also

ADDRESS: Walchestrasse 33,
8035 ZÜRICH

Tel.: (051) 29.20.11

AFFIL:

Title	PERSONNEL	Function
	W. Hess	Health Inspector
	6 - 7 P/NP	

AP aims and actions:

Measurements of urban AP (SO_2 CO NO_x), and of CO in blood of traffic police (report published).
Development of smoke-free domestic oil-fired heating.

Comments:

City is major part of Canton, and is effective AP organisation.
Mr. Hess is a member of EKL (CH 001).

CH.011 Gesundheitsinspektorat der Stadt Zürich 4.70

CH [redacted] 012 MUN [✓ A] B C D [✓ E] F 01 02 03 04 05 [✓ 11] 12 13 14 15 21 22 23 [✓ 24] 25 31 32 33 34 35 L M [✓ S] 1 [✓ 2] 3 4.70 [redacted] S [✓ T]

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: GESUNDHEITSAMT DES KANTONS BASEL-STADT

Health Board of Basel City Canton

ACRONYM:

See also

ADDRESS: Sankt Alban Vorstadt 12
4000 BASEL

Tel.: (061) 24.19.84

AFFIL:

Title	PERSONNEL	Function
Dr.	P. Steiner	head of Lufthygiene Wohnungswesen (domestic) AP.
	2 - 3 P/NP	

AP aims and actions:

Measurements of ambient AP (SO_2 CO dust and 3:4 benzpyrene).
Studies of effects of Pb on police (see also CH.004).

Comments:

Dr. Th. Müller, now retired from this Board, is member of EKL (CH.001).

CH.012 Gesundheitsamt des Kantons Basel-Stadt 4.70

CH [redacted] 013 REG A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: AMT FÜR LUFTHYGIENE DES KANTONS BASEL-LANDSCHAFT

AP Department of Basel Rural Canton

ACRONYM:

See also

ADDRESS: Rheinstrasse 31,
4410 LIESTAL (Basel)

Tel.: (061) 84.33.21

AFFIL:

Title	PERSONNEL	Function
Dip.Chem	F. Leuppi	director

AP aims and actions:

Comments:

Dip. Leuppi is member of EKL (CH.001).

CH.013 Amt fur Lufthygiene des Kantons Basel-Landschaft

CH [redacted] 014 REG [✓ A] B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 [✓ 24] 25 31 32 33 34 35 L M [✓ S] 1 [✓ 2] 3 4.70 [redacted] S [✓]
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LABORATOIRE CANTONAL DE CHIMIE, GENÈVE *
Geneva Cantonal Chemistry Laboratory

ACRONYM:

See also

ADDRESS: Rue de l'Athénée 42,
1200 GENÈVE

Tel.: (022) 25.43.40

AFFIL:

Title	PERSONNEL	Function
Ing.	P. Desbaumes	director of Industrial Toxicology and Air Analysis Section
	2 - 3 P/NP on AP	

AP aims and actions:

Measurements of ambient AP (SO_2 F dust and exhaust gas Pb compounds).

Comments:

* Section: Toxicologie Industrielle et d'Analyse de l'Air (Air Analysis and Industrial Toxicology Section).

Ing. Desbaumes is member of EKL (CH.001).

CH.014 Laboratoire Cantonal de Chimie, Genève 4.70

CH [redacted] 015 REG A B C [✓ D] E F 01 02 03 04 05 11 12 13 14 15 21 22 23 [✓ 24] 25 31 32 33 34 35 L M [✓ S] 1 2 [✓ 3] 4.70 [redacted] S T
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LABORATOIRE CANTONAL DU CANTON DE VAUD
Cantonal Laboratory of the Canton of Vaud

ACRONYM:

See also

ADDRESS: 8 Grand Chêne
1000 LAUSANNE

Tel.: (021) 22.22.02

AFFIL:

Title	PERSONNEL	Function
Dr.	A. Ramuz	director
Dr.Med.	M. Lob	i/c occup. med. dept.

AP aims and actions:

Made Ambient air SO_2 measurements (esp. around local oil refinery) and CO and SO_2 in Lausanne.

Comments:

Not very active now.
Lob is member of EKL (CH.001)

CH.015 Laboratoire Cantonal du Canton de Vaud 4.70

CH	016	REG	A B C [✓ D] E F	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	4.70	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: LABORATOIRE CANTONAL DU CANTON DE VALAIS

Cantonal Laboratory of the Canton of Valais.

ACRONYM:

See also

ADDRESS: 1950 SION (Valais)

Tel.: (027) 3.91.11

AFFIL:

Title	PERSONNEL	Function
Dr.	Ch. Perriard	director

AP aims and actions:

Measurements of ambient SO_2.

Comments:

Not very active now.

CH.016 Laboratoire Cantonal du Canton de Valais 4.70

CH [redacted] 021 ASN A B C D̸ E F̸ 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S̸ 1 2̸ 3 4.70 [redacted] S ̸
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VEREIN ZUR FÖRDERUNG DER WASSER- UND LUFTHYGIENE
ASS'N POUR...L'HYGIENE DE L'EAU ET DE L'AIR *
Assoc. for the Cons. of Water and Air Cleanliness

ACRONYM: VFWL/ASHEA

See also

ADDRESS: Militärstrasse 24 ø
8004 ZÜRICH

Tel: (051) 27.07.70

AFFIL: Supported by a wide range of Industries (see text).

Title	PERSONNEL	Function
St'rat	W. Jauslin	President
Herr	W. Kunz	Vic-president
Dr.	Th. Suter	head of Inspectorate ø

AP aims and actions:
All WF at present: AP to follow.

Comments:
ø Inspectorate is at:-

Löwenstrasse 1,
8001 ZÜRICH.

Established: Spring 1969.
Secretarial assistance and office space at present from EV (CH.022).
* for full title see over.

CH.021 Verein zur Förderung der Wasser- und Lufthygiene 4.70

CH.021 Verein zur Förderung der Wasser- und Lufthygiene 4.70

* Full title:-

VEREIN ZUR FÖRDERUNG DER WASSER- UND LUFTHYGIENE
ASSOCIATION POUR LA SAUVEGARDE DE L'HYGIÈNE DE L'EAU ET DE L'AIR
Association for the Conservation of Water and Air Cleanliness

CH [redacted] 022 ASN A [✓ B] C D E [✓ F] 01 02 03 04 05 11 12 13 14 [✓ 15] 21 22 23 24 25 [✓ 31] 32 33 34 35 L M [✓ S] 1 [✓ 2] 3 4.70 [redacted] S [✓ 1]
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: SCHWEIZERISCHE ERDÖL VEREINIGUNG
Swiss Petroleum Association

ACRONYM: EV
See also

ADDRESS: Militärstrasse 24,
8004 ZÜRICH.

Tel.: (051) 27.07.70

AFFIL:

Title	PERSONNEL	Function
Herr	W. Kunz	chairman (4-yr. term)
Dr.	H. Maurer	secretary

AP aims and actions:

To develop oil industry views for discussions with government and others, and for comments on pending regulations.

Comments:

Undertakes no practical work (but see VFWL - CH.021).

CH.022 Schweizerische Erdöl Vereinigung 4.70

CH [redacted] 023 ASN A [✓ B] C [✓ D] E [✓ F] 01 02 03 [✓ 04] 05 11 12 13 14 15 21 [✓ 22] 23 24 25 31 32 33 [✓ 34] 35 L [✓ M] S 1 [✓ 2] 3 4.70 [redacted] S [✓ 1]
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: VEREIN SCHWEIZERISCHER ZEMENT-&c-FABRIKANTEN
Association of Swiss Cement, Lime and Plaster Manufacturers.

ACRONYM:
See also

ADDRESS: Talstrasse 83,
8004 ZÜRICH.

Tel.: (051) 23.55.12

AFFIL:

Title	PERSONNEL	Function
Dr.	T. Tuet	chairman
Dr.	K. Eichenberger	secretary

AP aims and actions:

Selection of measuring methods and equipment for assessing dust emissions and for ensuring compliance with standards.
Advice on abatement problems.

Comments:

Has Emissions Inspectorate (Technischestelle Holderbank) to carry out aims and actions.

CH.023 Verein Schweizerischer Zement & -Fabrikanten 4.70

CH [redacted] 024 TND ~~A~~ B C ~~D~~ E ~~F~~ 01 02 03 ~~04~~ 05 11 ~~12~~ 13 14 15 21 22 ~~23~~ ~~24~~ 25 31 32 33 34 35 L M ~~S~~ 1 2 ~~3~~ 4.70 [redacted] S ~~1~~
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: SCHWEIZERISCHE ALUMINIUM AG *
Swiss Aluminium Company

ACRONYM: ALUSUISSE
See also

ADDRESS: Feldeggstrasse 4,
8008 ZÜRICH.

Tel.: (051) 34.90.90
AFFIL:

Title	PERSONNEL	Function
Dr.	P. Müller	director
Dr.	W. Syz	director of plant *
Dr.	P. Aeschbach	

AP aims and actions:

Developed abatement process for control of emissions from Al works (esp. F compounds).
Have made studies of effects of F cpds. on animals.

Comments:

* Foundry and own hydroelectric power station at Chippis (Valais).

CH.024 Schweizerische Aluminium AG (Alusuisse) 4.70

CH [redacted] 025 TND A B C ~~D~~ E ~~F~~ 01 02 ~~03~~ 04 05 11 12 13 14 15 21 22 23 24 25 31 32 ~~33~~ 34 ~~35~~ L M ~~S~~ 1 2 ~~3~~ 4.70 [redacted] S ~~1~~
Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: J. R. GEIGY AG
"Geigy"

ACRONYM:
See also

ADDRESS: Schwarzwaldallée 215,
4000 BASEL.

Tel.: (061) 32.50.51
AFFIL:

Title	PERSONNEL	Function
Dr.	Bretscher	

AP aims and actions:

Control of AP from organic chemicals works.

Comments:

Large group of pharmaceutical and fine chemicals manufacturers, with works in several places in NW Switzerland.

CH.025 J. R. Geigy AG. 4.70

CH [redacted] 026 TND A B C ~~D~~ E ~~F~~ 01 02 ~~03~~ 04 05 11 12 13 14 15 21 22 23 24 25 31 32 ~~33~~ 34 ~~35~~ L M ~~S~~ 1 2 ~~3~~ 4.70 [redacted] S ~~T~~

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: LONZA-WERKE AG
The Lonza Company

ACRONYM:

See also

ADDRESS: Münstersteinerstrasse 38,
4000 BASEL.

Tel.: (061) 34.38.50

AFFIL:

Title	PERSONNEL	Function
Dr.	A. Zurbriggen	

AP aims and actions:

Control of AP from organic chemicals works.

Comments:

Other works in Valais Canton (Gampel, Visp, Sins) and in the Ticino (Bodio).

CH.026 Lonza Werke AG. 4.70

CH [redacted] 027 TND ~~A~~ B C D E ~~F~~ ~~01~~ 02 03 04 05 11 12 13 14 15 21 ~~22~~ 23 24 25 31 ~~32~~ 33 34 35 L M ~~S~~ 1 ~~2~~ 3 4.70 [redacted] S T

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: ADOLF SAURER AG
"Saurer"

ACRONYM: Saurer

See also

ADDRESS:
9320 ARBON (Thurgau)

Tel.: (071) 46.91.11

AFFIL:

Title	PERSONNEL	Function
Mr.	Summerauer *	i/c AP

AP aims and actions:

As manufacturer of diesel engines, cooperated with EMPA (Fed. Materials Testing Station - CH.006) in development of smoke measuring instruments and methods; now adopted in regulations.
Development of low-smoke diesel engines.

Comments:

* Members of CEC Wkg. Gp. (X.) on diesel smoke.

CH.027 Adolf Saurer AG. 4.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
CH [redacted]	031	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 [✓ 33] [✓ 34] [✓ 35]	L M [✓ S]	1 2 [✓ 3]	4.70	[redacted]	S T

NAME: EIDGENÖSSISCHE T/H, Technisch Chemisches Institut

Federal Tech. University, Inst. of Industrial Chemistry

ACRONYM:

See also

ADDRESS: Universitätstrasse 6,
8006 ZÜRICH

Tel.: (051) 32.62.11

AFFIL.: Departement des Innern
(Min. of Interior).

Title	PERSONNEL	Function
Dr. Ing	B. Böhlen	

AP aims and actions:

Development of methods for measuring pollutants.
Research into abatement processes

Comments:

Dr. Böhlen is member of EKL (CH 001).

CH.031 ETH, Technisch-Chemisches Inst. 4.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
CH [redacted]	032	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 [✓ 2] 3	4.70	[redacted]	S T

NAME: EIDGENÖSSISCHE T/H, Inst. f. Hygiene u. Arbeitsphysiologie

Federal Tech. Univ., Inst. of Hygiene and Work Physiology

ACRONYM: ETH

See also

ADDRESS: Clausius strasse 26,
8006 ZÜRICH.

Tel.:

AFFIL.: Departement des Innern
(Min. of Interior).

Title	PERSONNEL	Function
Porf.	E. Grandjean	

AP aims and actions:

Research into problems of occupational hygiene.
Measurements of particulate and gaseous AP in Zürich.

Comments:

CH.032 ETH, Inst. f. Hygiene u. Arbeitsphysiologie 4.70

CH [redacted]	041	SOC	A B C D E [✓ F]	01 02 03 04 [✓ 05]	11 12 13 [✓ 14] 15	21 22 23 24 25	31 32 33 34 35	L [✓ M] S	1 2 [✓ 3]	4.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: LEGA GEGEN DEN LÄRM

League Against Noise

ACRONYM:

See also

ADDRESS: Sihlstrasse 17,
8001 ZÜRICH.

Tel.: (051) 25.44.44

AFFIL:

Title	PERSONNEL	Function
Dr.	O. Schenker-Sprüngli	secretary

AP aims and actions:

To press for ambient noise reduction, esp. in Zürich.

Comments:

Noise measurements made by EMPA (Fed. Materials Testing Station - CH.006).

CH.041 Lega Gegen den Lärm 4.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	001	GOV	/ / / / / F	/ / / / 05	/ / / / /	/ / / / /	/ / / / /	L M /	/ 2 3	1969	S /

NAME: Scientific Council on the Problem "The Protection of the Atmosphere from Pollution" (See Below)

ACRONYM:

See also 081

ADDRESS: Moscow

Tel

AFFIL: State Committee for Science and Technology of the Council of Ministers of the USSR

Title	PERSONNEL	Function
Dr.	I.L. Varshavskii	Chairman

AP aims and actions:

Principal Planning Group for Air Pollution Research and Control in the USSR.

See Attached Chart for Structure of the State Committee.

Comments:

Russian Name "Nauchnyi Sovet Po Probleme ' Zashchita Vosdushnogo Basseina ot Zagriazneniia"

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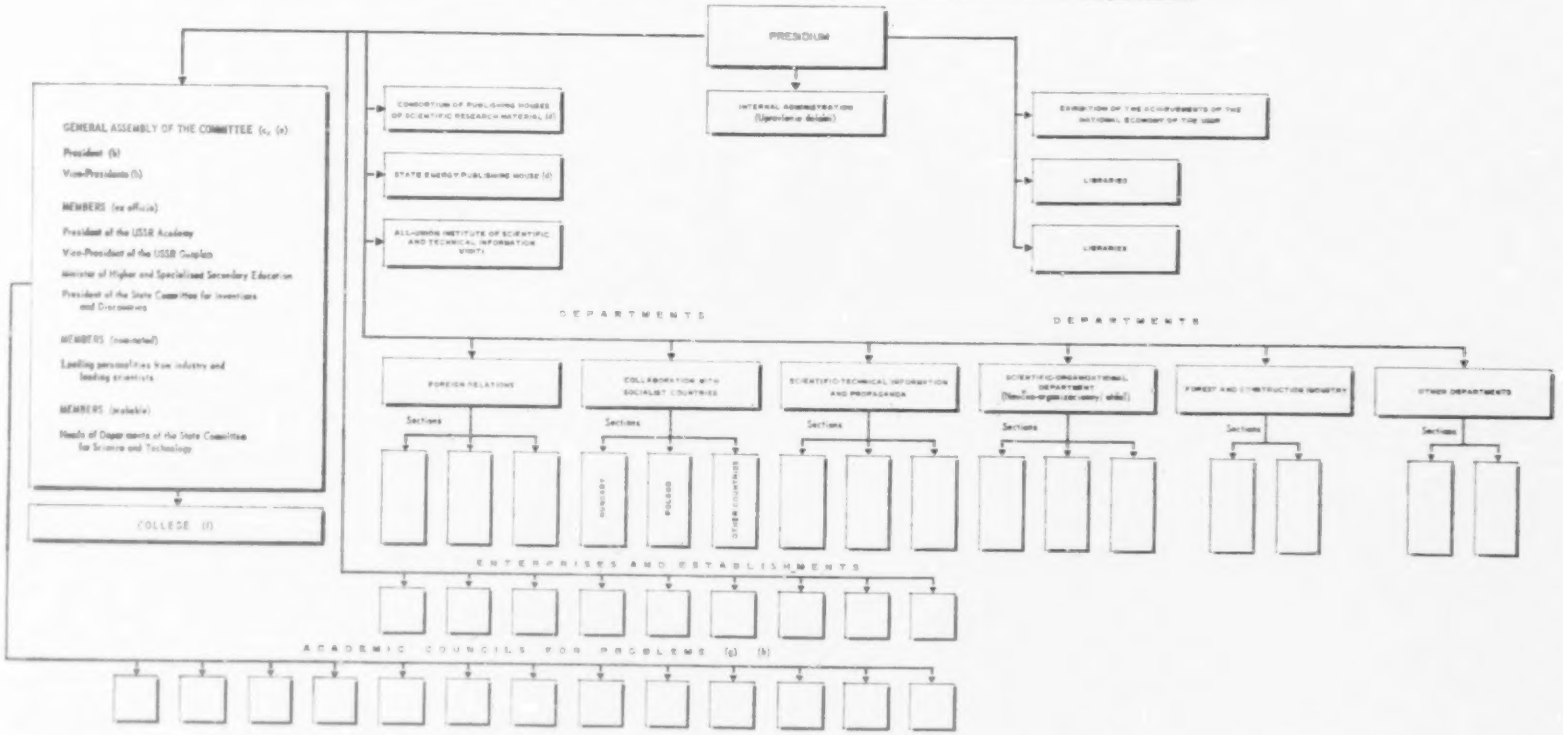
INTERNAL STRUCTURE OF THE STATE COMMITTEE FOR SCIENCE AND TECHNOLOGY[a]


PRESIDIUM
INTERNAL ADMINISTRATION (Upravlenie delami)
GENERAL ASSEMBLY OF THE COMMITTEE (c), (e)
President (b)
Vice-Presidents (b)
MEMBERS (ex officio)
President of the USSR Academy
Vice-President of the USSR Gosplan
Minister of Higher and Specialised Secondary Education
President of the State Committee for Inventions and Discoveries
MEMBERS (nominated)
Leading personalities from industry and leading scientists
MEMBERS (probable)
Heads of Departments of the State Committee for Science and Technology
COLLEGE (f)
CONSORTIUM OF PUBLISHING HOUSES OF SCIENTIFIC RESEARCH MATERIAL (d)
STATE ENERGY PUBLISHING HOUSE (d)
ALL-UNION INSTITUTE OF SCIENTIFIC AND TECHNICAL INFORMATION VINITI
EXHIBITION OF THE ACHIEVEMENTS OF THE NATIONAL ECONOMY OF THE USSR
LIBRARIES
LIBRARIES
DEPARTMENTS
DEPARTMENTS
FOREIGN RELATIONS
COLLABORATION WITH SOCIALIST COUNTRIES
SCIENTIFIC-TECHNICAL INFORMATION AND PROPAGANDA
SCIENTIFIC-ORGANISATIONAL DEPARTMENT (Nauchno-organizacionnyj otdel)
FOREST AND CONSTRUCTION INDUSTRY
OTHER DEPARTMENTS
Sections
Sections
Sections
Sections
Sections
Sections
HUNGARY
POLAND
OTHER COUNTRIES
ENTERPRISES AND ESTABLISHMENTS
ACADEMIC COUNCILS FOR PROBLEMS (g) (h)

Sources:

[1] "Položenie o Gosudarstvennom komitete Soveta Ministrov SSSR koordinacii naučno-issledovatel'skih rabot" (Regulation Concerning the State Committee of the Council of Ministers of the USSR for Co-ordination of Scientific Research Work), issued by the Council of Ministers of the USSR on 23 December, 1961 — *Sbornik normativnyh aktov po sovetskomu administrativnomu pravu* (Collection of Official Acts on Soviet Administrative Law), M. 1964, pp. 430-435.

[2] "Položenie o Gosudarstvennom komitete Soveta Ministrov SSSR po nauke i tehnike" (Regulation Concerning the State Committee of the Council of Ministers of the USSR for Science and Technology), approved by the Council of Ministers of the USSR on 1 October, 1966, in *Spravočnik partijnogo rabotnika*, *op. cit.*, 7th issue, M. 1967, pp. 272-278.

[3] *Vestn. Akad. nauk*, 1967, No. 7, pp. 82-97.

[4] Peter Knirsch, *Technischer Fortschritt und Zentrale Planwirtschaft*, in Sowjetunion, *Das Wirtschaftssystem*, *op. cit.*, pp. 223-228.

[5] V.D. Ljubimov, "Iz opyta koordinacii raboty v sovetskom sojuze" (The Experience of Co-ordination of Scientific Work in the Soviet Union), *Vestn. Akad. nauk*, 1965, No. 8, pp. 45-50.

Notes:

a. Most information concerning the internal structure of the State Committee for Science and Technology has been taken from the Regulation of 1st October, 1966. This information is supplemented by other sources ante-dating the 1965 Reforms, consulted in order to get a more complete picture of the internal structure. For this reason, the present chart can be considered only as a tentative presentation of the distribution of functions within the State Committee for Science and Technology.

b. The Chairman, who is *ex-officio* Vice-Chairman of the Council of Ministers of the USSR, is nominated by the Supreme Soviet (Parliament) of the USSR. The Vice-Chairmen of the Committee are nominated by the Council of Ministers of the USSR.

At the present time (March, 1968), Vladimir A. Kirillin, Academician and former Vice-President of the USSR Academy of Sciences, is Chairman of the State Committee for Science and Technology. Djermen M. Gvišiani is one of its Vice-Chairmen.

c. According to the Regulation of 23rd December, 1961, these are the "Committee Members". The distribution of powers between this "Committee" and the Presidium or the Chairman is not known. This distribution is carried out by the Council of Ministers of the USSR.

d. These organisations were attached to the State Committee for Co-ordination of Scientific Research before the September 1965 Reforms. It is not sure whether they are still attached to the State Committee for Science and Technology.

e. Before 1965, the State Committee for Co-ordination of Scientific Research had, attached to its Presidium, an Academic Council (see note 1, p. 59) which was probably merged with its General Assembly by the Regulation of 1st October, 1966. In 1965, this Academic Council had 31 Members, of whom 24 where at the same time Chairmen of Science Councils for Problems attached to the Committee or to the USSR Academy of Sciences. V.D. Ljubimov, *op. cit.*, *Vestn. Akad. nauk*, 1965, No. 8, p. 46.

f. The "College" (Kollegia) of the Committee is nominated by the Council of Ministers of the USSR. Its functions are not known. See "Položenie o Gosudarstvennom komitete Soveta Ministrov SSSR po nauke i tehnike", (1 October 1966), *op. cit.*, in *Spravočnik partijnogo rabotnika*, *op. cit.*, 7th issue, M., 1967, p. 277.

g. After the 1961 reorganisation of the Committee, 24 Science Councils were created and attached to this institution. Their number rose to 33 in 1965. Fedorov, *Vestn. Akad. nauk*, 1962, No. 3, p. 9, and V.D. Ljubimov, *Vestn. Akad. nauk*, 1965, No. 8, p. 45. For the list of Science Councils attached to the State Committee for Science and Technology, see Appendix, Table A.1.

h. Before 1961, the former "State and Scientific Committee" (which existed from 10th May, 1957 to 8th April, 1961), headed by Ju. Maksarev, created "Commissions" and "Brigades"; these examined the most important problems connected with science and technology. In 1959, there existed under the State and Scientific Committee of the USSR, 140 "Commissions" and "Brigades" including 3,500 important scientists, specialists and innovators, and under the State and Scientific Committees of Union Republics, 413 "Commissions" and "Brigades" with more than 5,000 specialists. Ju. Maksarev, in *Plenum CK KPSS*, 24-29 June 1959, pp. 731-732.

SU	002	GOV	/ / / / / /	~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~	~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~	~~21~~ ~~22~~ ~~23~~ 24 ~~25~~	31 32 33 34 35	/ M S	/ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Ministry of Public Health of the USSR

ACRONYM:

See also 082: 003-033; 126-164

ADDRESS:
Moscow
Rakhmanovsky pev.3

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Principal Governmental Agency concerned with Air Pollution Research and Control in the USSR.

Comments:

Has about 300 Medical Research Institutes and 100 Establishments for Higher Medical Education and further training of Physicians.

SU	003	GOV	/ / C D E /	01 02 03 04 05	~~11~~ 12 13 ~~14~~ 15	21 ~~22~~ 23 24 ~~25~~	31 32 33 34 35	/ M S	/ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Academy of Medical Sciences of the USSR

ACRONYM: AMN

See also 004 -010; 164

ADDRESS:
Moscow
Ulitsa Solyanka, 14

Tel.:

AFFIL:

Ministry of Public Health of the USSR (002)

Title	PERSONNEL	Function
	Academicians - 99	
	Corresponding Members - 144	

AP aims and actions:

Fundamental Library of the Academy - Moscow, Baltiyskaya Ulitsa 8

Comments:

Medical-Biological Division - 6 Institutes
Clinical Medicine - 8 Institutes
Hygiene, Microbiology, Epidemiology - 4 Institutes

Over-all has 40 Major Medical Research Institutes under its wing.

SU	004	GOV	A ✓ C D E F	01 02 03 04 05	✓ 12 13 ✓ 15	21 22 23 24 25	31 32 33 34 35	L M ✓	✓ 2 3	1969	✓ ✓
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Problem Commission on the Scientific Importance of "The Scientific Bases of Hygiene of Populated Areas" (see below)

ACRONYM:

See also 005-010; 164

ADDRESS:

Moscow
Ulitsa Solyanka, 14

Tel.:

AFFIL:

Academy of Medical Sciences
of the USSR (003)

Title	PERSONNEL	Function
Doctor	SIDORENKO, G. I.	Chairman
Prof.	KALIUZHNYI, D.	Deputy of the Chairman
Prof.	CHERKINSKII, S.	Deputy of the Chairman
Doctor	BELIAEV, I. I.	Deputy of the Chairman
Cand.	RIABOV, V. N.	Scientific Secretary

AP aims and actions:

Russian Name - Problemnoi Kommissii po Probleme
Soiuznogo Znacheniia "Nauchnye
Osnovy Gigieny Naselennykh Mest"

Comments:

SU 004

Members of the Commission

Litvinov, N. N., Corr. member AMS USSR, DMS, Prof. Hygiene of city building.
Gol'dberg, M. S., Prof., DMS. Hygiene of the atmosphere
Gudzovskii, G. A., Prof., DMS. Gen. organizational questions of gen. and communal hygiene.
Gusev, M. I., Prof., DMS. Hygiene of the atmosphere of populated areas.
Dantsig, N. M., Prof., DMS. Hygiene of illumination. Biological effect of light energy.
Zhabotinskii, V. M., Prof., DMS Water hygiene and sanitary protection of water supplies.
Atabaev, S. T., DMS, Hygiene of pesticides.
Lazutka, F. A., Cand. of med. Sciences, gen. organizational questions of gen. and communal hygiene.
Los', L. I., Prof., DMS, water hygiene and the sanitary protection of water supplies.
Maslov, L. M., Prof., DMS, Water and air hygiene, sanitary protection of water supplies.
Subbotin, Filipp Nikanorovich, Prof., DMS soil hygiene, general hygienic questions.
Shalamberidze, O. P., Cand. of med. sciences. General org. questions of general and communal hygiene.
Amirov, R. O., Prof., DMS. Hygiene of the atmosphere.
Sergeev, E. P., DMS. Water hygiene and the sanitary protection of water supplies.

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SU	005	GOV	A [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 [✓ 14] 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	[✓ 1] 2 3	1969	[✓] [✓]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Section on Sanitary Protection of the Atmosphere

ACRONYM:

See also 003; 006-010; 164

ADDRESS:

Moscow
Ulitsa Solyanka, 14

Tel.:

AFFIL: Problem Commission on the Scientific Importance of "The Scientific Bases of Hygiene of Populated Areas". (004)

Title	PERSONNEL	Function
Prof.	BUSHTUEVA, K. A.	Chairman
Prof.	GUSEV, M. I.	Deputy of the Chairman
Can.	TSULAIA, V. R.	Scientific Secretary

AP aims and actions:

Comments:

SU 005

Members of the Section

Gol'dberg, M. S., Prof.
Glebova, L. F., c.m.s.
Korneev, IU. I., c.m.s.
Solov'eva, T. V., c.bio.s.
Manita, M. D., c.chem.s
Sadilova, M. S., c.m.s.
Shalamberidze, O. P., c.m.s.
IAnysheva, N. IA., c.m.s.
Krasovitskaia, M. L., Prof.

SU	006	GOV	A ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	~~1~~ 2 3	1969	S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: All-Union Committee on the Scientific Bases of Labor Hygiene and Professional Pathology (see below)

ACRONYM:

See also 008; 013-021

ADDRESS:

Moscow
Ulitsa Solyanka, 14

Tel.:

AFFIL: Academy of Medical Sciences of the USSR (003)

Title	PERSONNEL	Function
Dr.	A. A. Letavet	

AP aims and actions:

Russian Name - Vse-Soiuznyi Komitet po Nauchnym Oshovam Gigieny Truda i Professional'noi Patologii

Comments:

Has "Standing Committee for the Establishment of Maximum Permissible Concentrations of Toxic Substances in the Atmosphere of Industrial Premises" - Director, Dr. A. A. Letavet

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SU	009	GOV	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Experimental and Clinical Onocology

Institut Eksperimental'noi i Klinicheskoi Onkologii

ACRONYM:

See also

ADDRESS:

Moscow
Kashirskoe Shosse, 6

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	L. M. Shabad	
Dr.	L. N. Pylev	
	G. F. Budanov	
	O. I. Demochka	
	M. A. Zabezhinskii	

AP aims and actions:

Research Areas: Carcinogenic Substances in the air and their effects on humans.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	007	GOV	[✓] [✓] C D E [✓]	01 02 03 04 05	[✓ 11] 12 13 [✓ 14] 15	21 [✓ 22] 23 24 [✓ 25]	31 32 33 34 35	[✓] M S	[✓ 1] 2 3	1969	[✓] [✓]

NAME: Sysin Institute of General and Communal Hygiene Institute

Obshcheii Kommunal'noi Gigieny im. A.N. Sysina

ACRONYM:

See also 126; 042; 045; 046

ADDRESS:

Moscow
Pogodinskaia Ulitsa, 10

Tel.:

AFFIL: Academy of Medical Sciences of the USSR (003)
(Division of Hygiene, Microbiology & Epidermiology)

Title	PERSONNEL	Function
Doctor	SIDERENKO, G. I.	Director
Doctor	GOL'DBERG, M. S.	Chairman of Air Hygiene
	POSTNIKOVA, V. D.	
Prof.	DANTSIG, N. N.	
	Professional 100	
	Total 250	

AP aims and actions: Study of environmental factors on the health of the population; coordinates USSR research on biological and hygienic significance of environmental factors; develops research programs for the Ministries of Health of the constituent republics of the USSR; appraises work of other similar institutes in the several republics; coordinates USSR research for the Council of Mutual Economic Cooperation and for the World Health Organization in this area.

Comments: Engaged in research on biological activity of air pollutants; development of air quality standards; research on atmospheric chemical reactions and methods of air sampling and analysis.

SU 007

SYSIN INSTITUTE

- Dept. of Hygiene of Synthetic Materials
- Dept. of Public Buildings and Dwellings
- Dept. of Planning and Air Hygiene (M. S. Gol'dberg)
- Laboratory of Hygienic Aspects of Noise and Vibration
- Laboratory of Hygienic Aspects of City Planning
- Laboratory of Hygienic Aspects of the Atmosphere (Works on Air Quality Standards & Criteria)
- Laboratory of Physico-Chemical Aspects of Ambient Air

PERSONNEL INCLUDES:

Aigina, E. P.
Andreesheheva, N. G.
Benzina, G. I.
Bezpal'ko, L. E.
Dmitriev, M. T.
Fel'dman, Ju. G.
Gofmekler, V. A.
Gusev, I. S.
Khikmatullaeva, S. S.
Kimina, S. N.
Kitrosskii, N. A.
Skvortsova, N. N.
Lopukhava, G. S.
Polezhaev, N. G.
Popov, V. A.
Kuznetsova, L.V.
Tepikina, L. A.
Ubaidullaev, R. *
Voskresenskaia, E. A.
Zibireva, I. A.

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* Works in cooperation with Uzbek Institute of Sanitation, Hygiene and Occupational Diseases.

SU	008	GOV	✓ ✓ C D E ✓	01 02 03 04 05	✓ 12 13 ✓ 15	21 22 23 24 25	31 32 33 34 35	✓ M S	✓ 2 3	1969		✓ ✓
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Labor Hygiene and Occupational Diseases Institute

Institut Gigieny Truda i Professional'nyia Zabolevanii

ACRONYM:

See also 006; 013-022

ADDRESS:

Moscow
Meerovskii Proezd, 31

Tel.:

AFFIL:
Academy of Medical Sciences
of the USSR (003)

Title	PERSONNEL	Function
Doctor	LETAVET, A. A.	Director
	VORONTSOVA, E. I.	Deputy Director
	SHIROKOV, Ju. E.	Scientific Secretary
	ROSHCHIN, D. V.	Deputy Director for Science
	Professional 250	
	Total 650	

AP aims and actions: Coordinates peripheral labor hygiene institutes, and labor hygiene in general hygiene institutes and chairs of labor hygiene in medical institutes and institutes of advanced medical training. Is a teaching and research institution, with 70-80 aspirants and interns annually. Participates in developing sanitary norms and regulations.

Comments:

SU 008

Departmental Heads - (Labor Hygiene)

Office of Labor Hygiene Expertise & Consultation
Labor Hygiene in Certain Branches of Industry
Industrial Sanitary Chemistry
Industrial Ventilation
Industrial Aerosols
Industrial Toxicology*
Electromagnetic Radiation
Industrial Microclimate
Noise and Vibration

(Radiation Safety)

Radioactive Aerosols
Radiation Hygiene
Radiobiology
Dosimetry and Protection
Radiation Apparatus

(Clinical)

Physiotherapy
Clinical Physiology
Clinico Diagnostics

V. G. Macok
N. P. Kokorev
O. D. Khalizova
I. F. Livchak
E. I. Vorontsova
I. V. Sanotski
Z. V. Gordon
A. E. Malysheva
I. K. Razumov
P. P. Liarskii
P. I. Moiseitsev
L. N. Burykina
A. A. Petushkov
N. V. Vershinin
K. P. Molokanov
V. A. Bragina
L. G. Okhnianskaia
V. V. Sokolov

Departmental Heads - (Clinical)

Biochemistry
Bio-Methods
Therapy
Experimental Therapy
Radiology
Neurology
Dermatology
Roentgenology
Polyclinical Consultation
Labor Physiology
Pathomorphology
Immunology
Biostatistics

I. V. Pavlova
B. G. Garkavi
N. M. Konchalovskaia
O. G. Akhipova
A. K. Gushkova
E. A. Drogichina
A. P. Dolgov
K. P. Molokanov
N. N. Shatalov
Z. M. Zolina
M. S. Tolgskaia
O. G. Alekseeva
N. V. Dolge

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* Publishes "Toxicology of New Industrial Chemical Substances"
Toksikologia Novykh Promyshlennykh Khimicheskikh Veshchestv

SU	010	GOV	[✓ A] B C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Nutrition

ACRONYM:

See also 012

ADDRESS:

Moscow
Ustyinsky Proezd 2/14

Tel.:

AFFIL:

Academy of Medical
Sciences of the USSR (003)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Has "Laboratory of Toxicology of Agricultural Chemicals"

SU	013	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Labor Hygiene and Occupational Disease Research Institute
Nauchno-Issledovatel'skii Institut Gigieny Trudai Professional'nykh Zabolevanii

ACRONYM:

See also 008; 014-022

ADDRESS:

Angarsk
31 Karl Marx Pr.

Tel.:

AFFIL: Research Areas: Air Pollution by Resinous Substances in Irkutsk

Title	PERSON	Function
	E. G. Manzhenko	

AP aims and actions:

Publication: Collected Scientific Works
Sbornik Nauchnykh Trudov

Comments:

SU	011	GOV	A B ~~C~~ D ~~E~~ F	~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~	~~11~~ 12 13 ~~14~~ ~~15~~	~~21~~ ~~22~~ ~~23~~ 24 25	~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~	~~L~~ M S	~~1~~ 2 3	1969
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: Sanitary-Epidemiological Service

ACRONYM:

See also 043; 044

ADDRESS:

Moscow
Rakhmanovsky pev. 3

Tel.:

AFFIL:
Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
Dr.	P. P. Liarskii	Deputy Minister of Health, Director of Department (Service)
	A. S. Perotskkaia	
Dr.	M. K. Nedogibchenko	Senior Air Pollution Specialist
	D. P. Loranski	

AP aims and actions: Carries out State sanitary surveillance; develops and implements programs to abate environmental pollution; improve general living and working conditions; prevent general, infectious and occupational illness; and to propose legislation to accomplish these objectives.

Comments: The Sanitary-Epidemiological Service maintains about 4500 Sanitary-Epidemilogical Stations throughout the USSR on the republic, Kvaj, oblast, okrug, town, town district and rural district levels, including stations attached to water basins, ports and water transport authorities.

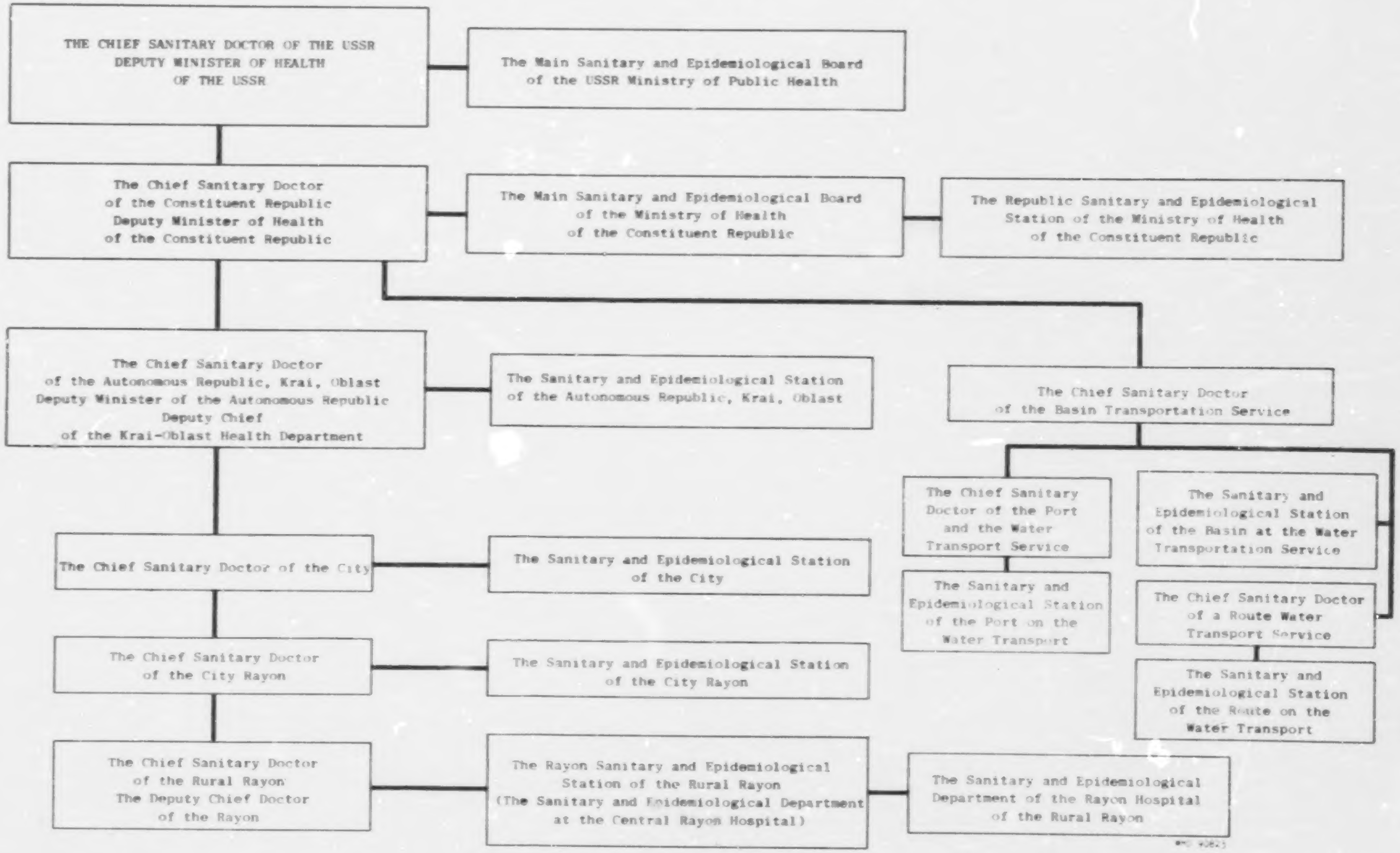
SU 011

The head of each Sanitary-Epidemiological Station is also the chief sanitary physician for the corresponding territory or basin, and is an appointed official.

The organization of each Sanitary-Epidemiological Station is dependent on local requirements. The staff consists of sanitary physicians of various profiles: epidemiologists, parasitologists; sanitary physicians with special qualifications in field of hygiene - communal, general, occupational, etc., for which training is provided by the Institutes of Advanced Medical Training and other Medical Institutes.

For organization of the Sanitary-Epidemiological Service, see attached sheet.

THE STRUCTURE OF THE SANITARY-EPIDEMIOLOGICAL SERVICES IN THE USSR


THE CHIEF SANITARY DOCTOR OF THE USSR DEPUTY MINISTER OF HEALTH OF THE USSR
The Main Sanitary and Epidemiological Board of the USSR Ministry of Public Health
The Chief Sanitary Doctor of the Constituent Republic Deputy Minister of Health of the Constituent Republic
The Main Sanitary and Epidemiological Board of the Ministry of Health of the Constituent Republic
The Republic Sanitary and Epidemiological Station of the Ministry of Health of the Constituent Republic
The Chief Sanitary Doctor of the Autonomous Republic, Krai, Oblast Deputy Minister of the Autonomous Republic Deputy Chief of the Krai-Oblast Health Department
The Sanitary and Epidemiological Station of the Autonomous Republic, Krai, Oblast
The Chief Sanitary Doctor of the Basin Transportation Service
The Chief Sanitary Doctor of the Port and the Water Transport Service
The Sanitary and Epidemiological Station of the Port on the Water Transport
The Sanitary and Epidemiological Station of the Basin at the Water Transportation Service
The Chief Sanitary Doctor of a Route Water Transport Service
The Sanitary and Epidemiological Station of the Route on the Water Transport
The Chief Sanitary Doctor of the City
The Sanitary and Epidemiological Station of the City
The Chief Sanitary Doctor of the City Rayon
The Sanitary and Epidemiological Station of the City Rayon
The Chief Sanitary Doctor of the Rural Rayon The Deputy Chief Doctor of the Rayon
The Rayon Sanitary and Epidemiological Station of the Rural Rayon (The Sanitary and Epidemiological Department at the Central Rayon Hospital)
The Sanitary and Epidemiological Department of the Rayon Hospital of the Rural Rayon

Report of the Inter-Regional Traveling Seminar on the Public Health and Sanitation Aspects of City Planning in the USSR - SSH/69.4, World Health Organization, Geneva, Switzerland (1969).

SU	012	GOV	[✓ A] B C D E F	01 02 [✓ 03] [✓ 04] 05	[✓ 11] [✓ 12] [✓ 13] 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	1969	[✓] T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: All-Union Research Institute for the Hygiene and Toxicology of Pesticides, Polymers, and Plastics (see below)

ACRONYM:

See also 010

ADDRESS:

Kiev
Ulitsa Mel'nikova, 53

Tel:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
Dr.	Yu. S. Kagan	Chief, Dept. of Experimental Toxicology
	V. S. Buryi	Deputy Dir. for Science
	O. Kulagin	Laboratory of Experimental Therapy
Dr.	E. I. Spynu	
	N.M.Brodskaia	
	M. A. Klisenko	
	L. P. Novitskaia	

AP aims and actions:

Toxicology of insecticides, fungicides and herbicides; their use in the field and ultimate fate in the environment: Research on Measurement methods e.g., xylene, phthalophos, phozalon.

Comments: Additional Personnel:
M. V. Pis'mennaia
L. S. Somosvat
N. I. Verbliudova

Russian Name: Vse-Soiuznyi Institut Gigieny, Toksikologii Pestitsodov, Polimernykh i Plasticheskikh Mass

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SU 012

Dept. of Experimental Toxicology
- Laboratories
  - General Toxicology
  - Morphology
  - Mutogenic, Embryotoxic and Blastomugenetic effects
  - Experimental Therapy
  - Biochemistry

Dept. of Hygiene of Pesticides
- Laboratories
  - Insecticides
  - Fungicides
  - Herbicides

Dept. of Chemistry
- Chemistry of Plastics

Laboratory of Polymers used in everyday life.

SU	014	GOV	[✓ A] B C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Labor Hygiene and Occupational Disease Research Institute
Nauchno-Issledovatel'skii Institut Gigieny Truda i Professional'nykh Zabolevanii

ACRONYM:

See also 008; 013-022; 139

ADDRESS:
Donetsk
2a Linia, 50

Tel.:

AFFIL:
Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
Dotsent	Grin'	Chair of Municipal Hygiene (4 Persons)
Dotsent	Lastkov	Chair of General Hygiene (3 Persons)

AP aims and actions:

Comments:

SU	015	GOV	[✓ A] B C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Labor Hygiene and Occupational Disease Research Institute
Nauchno-Issledovatel'skii Institut Gigieny Truda i Professional'nykh Zabolevanii

ACRONYM:

See also 106; 138; 188
008; 013; 022

ADDRESS:
Dnepropetrovsk

Tel.:

AFFIL:
Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
Prof.	M. Ya. Sheling	Chair of Municipal Hygiene (7 Assistants)
Prof.	Shandala	Chair of General Hygiene (3 Assistants)

AP aims and actions:

Comments:

SU	016	GOV	[✓ A] B C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Labor Hygiene and Occupational Disease Research Institute
Nauchno-Issledovatel'skii Institut Gigieny Truda i Professional'nykh Zabolevanii

ACRONYM:

See also 008; 013-022

ADDRESS:
Kiev
Ulitsa Chkalova, 33

Tel.:

AFFIL:
Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	L.G. Aleksandrova	
	M. A. Klisenko	

AP aims and actions:

Research Areas: Determination of "Karbin" in air.

Comments:

Publication: "Labor Hygiene"

SU	017	GOV	[✓ A] B C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Labor Hygiene and Occupational Disease Research Institute
Nauchno-Issledovatel'skii Institut Gigieny Truda i Professional'nykh Zabolevanii

ACRONYM:

See also 008; 013-022

ADDRESS:
Leningrad
2a Sovetskaya Ulitsa, 4

Tel.:

AFFIL: Ministry of Public Health
of the USSR

Title	PERSONNEL	Function
	E. E. Gershkovich	
	R. B. Tupeeva	
	N. Sh. Vol'berg	

AP aims and actions:

Research Areas: Retention of Pollutants in the lungs; Measurement Methods for pollutants in air, e.g., nickel carbonyl, mercury, hydrogen sulfide, methoxone, thioglycolic acid.

Comments:

SU	018	GOV	[✓ A] B C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Effendi-Zade Labor Hygiene and Occupational Disease Research Institute (see below)

ACRONYM:

See also 008; 013-022

ADDRESS:

Samgait

Tel.:

AFFIL:

Ministry of Public Health of the USSR (002)

Title	PERSONNEL	Function
	I. A. Guseinov	

AP aims and actions:

Research Areas: Photometric determination of m and p diisopropyldenzone hydroperoxides in air.

Comments:

Russian Name - Nauchno-Issledovatel'skii Institut Gigieny Truda i Professional'nykh Zabolevanii im. Effendi-Zade

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SU	019	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Labor Hygiene and Occupational Disease Research Institute

Nauchno-Issledovatel'skii Institut Gigieny Truda i Professional'nykh Zabolevanii

ACRONYM:

See 074; 078; 101; 158
also 008; 013-022

ADDRESS:

Sverdlovsk

Tel.:

AFFIL:

Ministry of Public Health of the USSR (002)

Title	PERSONNEL	Function
	T. S. Egerova	
	B.A. Katsnel'son	
	L. V. Kataev	
	E. F. Kuperman	
Dr.	M. S. Sadilova	Sr. Research Associate
	N. P. Sapugoltsev	

AP aims and actions:

Research Areas: Effect of low SO_2 concentrations on child health; Effect of Industrial Effluents on child health; Air Quality in N-Tagil; Use of Membrane filters for Air Sampling.

Comments:

Publications: Works
Trudy

SU	020	GOV	[✓ A] B C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Uzbek Labor Hygiene and Occupational Disease Research Institute

Uzbek Nauchno-Issledovatel'skii Institut Gigieny Truda i Professional-nykh Zabolevanii

055; 159; 022

See also 008; 013-022

ADDRESS:

Tashkent
Karl Marx, 85

Tel.:

AFFIL: Ministry of Public Health of the USSR (002)

Title	PERSONNEL	Function
	N. M. Demidenko	
	L. I. Startseva	
	V. V. Tarasov	
	H. Ya. Vengerskaia	

AP aims and actions:

Research Areas: Effluents from Cottonseed Oil Manufacture; Determination of Pentachlorphenol in air during agricultural operations.

Comments:

SU	021	GOV	[✓ A] B C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Labor Hygiene and Occupational Disease Research Institute

Nauchno-Issledovatel'skii Institut Gigieny Truda i Professional'nykh Zabolevanii

ACRONYM:

See also 137; 008; 013-022

ADDRESS:

Ufa
Pervomayskaya Ulitsa, 20a

Tel.:

AFFIL:

Ministry of Public Health of the USSR (002)

Title	PERSONNEL	Function
	L. K. Maliarova	
	A. K. Moikevich	

AP aims and actions:

Research Areas: Long term effect of ethylene and trichlorethylene on newborn animals; acetylene production by electrocracking as a hygiene problem.

Comments:

SU	022	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Uzbek Institute of Sanitation, Hygiene and Occupational Diseases
(see below)

020; 055; 159

See also 184; 186; 194; 008; 023; 013-021

ADDRESS:

Tashkent
Karl Marx, 85

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	M. I. Kuchmi	
	S.I. Sosnovski	
	A. E. Zakhidov	

AP aims and actions:

Research Areas: Air Pollution in Tashkent; Pollution emissions from "hydrolytic" chemical industries (in cooperation with Sysin Institute - R. Ubaidullaev)

Comments:

Publication: Works
Trudy

Russian Name: Uzbekskii Institut Sanitarii, Gigieny i Professional'nykh Zabolevanii

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SU	023	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Novosibirsk Institute of Sanitation

Novosibirskii Nauchno-Issledovatel'skii Institut Sanitarii

041; 098-9

See also 184; 186; 194; 022; 034; 085

ADDRESS:

Novosibirsk
Krasny pr. 59

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	V. I. Tsaritsyn	
	N. R. Kosiborod	
	Ya. J. Lipskii	
	P. G. Tkachev	
	V.A. Vinogradova	

AP aims and actions:

Research Areas: Pollution in Novosibirsk from automobiles and industry; Effect of Cement plant effluents on the health of the population; Air Quality criteria for aliphatic amines and nitrogen oxides; Determination of Menthyl Bromide and Mezidine in air.

Comments:

Publication: Collected
Scientific Works-Sbornik
Nauchny Kh Trudov

SU	024	GOV	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Central Epidemiological Research Institute

Tsentral'nyi Nauchno-**Issledovatel'skii Institut Epidemiologii**

131-3; 024-030;

See also 047-048

ADDRESS:

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	E. V. Dmitrieva	

AP aims and actions:

Research Areas: Air Pollution in Podol'sk

Comments:

SU	025	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Arkhanzel'sk Institute of Epidemiology, Microbiology and Hygiene (see below)

ACRONYM:

See also 131-3; 047-48; 024-030

ADDRESS:

Arkhangel
Pr. Ch. Luchinskogo, 32

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	N. N. Nikotin A. D. Otsing	

AP aims and actions:

Research Areas: Dust and Bacterial Air Pollution in **Arkhangel'sk**

Comments:
Publication: Collected Scientific Works - Sbornik Nauchnykh Trudov

Russian Name: **Arkhangel'skii** Institut Epidemiologii, Mikrobiologii i Gigieny

SU	027	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kazakhstan Institute of Epidemiology, Microbiology and Hygiene (see below)

032; 050; 056; 104; 169

See also 024-030; 047-048

131-3

ADDRESS:

Alma - Alta
Ulitsa Kirova, 103

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	E. M. Gol'berg	
	N. A. Jashkina	
	A. A. Lukashev	
	G. F. Pollak	
	P. I. Shishova	
	S. Taubaldiev	

AP aims and actions:

Research Areas: Air Pollution in Gur'ev and Alma-Ata

Comments:

Russian Name: Institut Epidemiologii, Mikrobiologii i Gigieny Kazakhstana

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SU	026	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Irkutsk Research Institute of Epidemiology and Microbiology
Irkutskii Nauchno-Issledovatel'skii Institut Epidemiologii i Mikvobiologii

142 131-3

See also 042-48; 024-030

ADDRESS:

Irkutsk

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Pollutant concentration in buildings.

Comments:

Publication: Works
Trudy

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	029	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T

NAME: Rostov-on-the-Don Research of Epidemiology, Microbiology and Hygiene (see below)

154 131-3

See also 024-030; 047-048;

ADDRESS:

Rostov-on-the-Don

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	L. G. Milokostova	
	K. A. Prokopenko	

AP aims and actions:

Research Areas: Carbon Monoxide from Automotive Transport in Rostov-on-the Don

Comments:

Publication: News
Izvestiia

Russian Name: Nauchno-Issledovatel'skii Institut Epidomiologii, Mikrobiologii i Gigieny G. Rostova-na-Donu

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Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	028	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T

NAME: Moldovian Institute of Epidemiology, Microbiology and Hygiene (see below)

ACRONYM:

See also 145 024-030; 047-8
131-3

ADDRESS:

Kishinev
Ulitsa Ostrovskogo, 13

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	I. I. Nikberg	

AP aims and actions:

Research Areas: Odor Fatigue; Hygienic Classifications of Air Pollutants

Comments:

Publication: Collected Works
Sbornik Trudov

Russian Name: Moldavskii Institut Epidemiologii, Mikvobiologii i Gigieny

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	030	GOV	✓ B C D E ✓	01 02 03 04 05	✓ 12 13 14 15	21 ✓ 23 24 25	31 32 33 34 35	L M ✓	1 2 ✓	1969	S T

NAME: Vladivostok Research Institute of Epidemiology, Microbiology and Hygiene (see below)

038 131-3; 047-048;

See also 024-029

ADDRESS:

Vladivostok

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	G. P. Gurevich	
	V. A. Kazakov	
	L. I. Maliutina	
	G. F. Ronis	

AP aims and actions:

Research Areas: Hygienic Evaluation of Air Pollution in Vladivostok

Comments:

Publication: Collected Works
Sbornik Trudov
Russian Name: Vladivostochnyi Nauchno-Issledovatel'skii Institut Epidemiologii, Mikrobiologii i Gigieny

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Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	031	GOV	✓ B C D E F	01 02 03 04 05	✓ 12 13 14 15	21 ✓ 23 24 25	31 32 33 34 35	L M ✓	1 2 ✓	1969	S T

NAME: Institute of Radiation Hygiene

ACRONYM:

See also 032

ADDRESS:

Leningrad
Ulitsa Poentgena, 6

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	A. F. Dreshina	
	V. Z. Ias'kova	
	N. I. Shalak	
	G. I. Smorodintseva	
	S. I. Tavasov	

AP aims and actions:

Research Areas: Assimilation of Plutonium 239 in the body; Biological effect of hot atmospheric particles.

Comments:

SU	033	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 21 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969		S	T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Kazakhstan Institute of Fine Pathology
Institut Kraevoi Patologii Kazakhstana

ACRONYM:

See also 168

ADDRESS:

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	G. D. Liakh	

AP aims and actions:

Research Areas: Influence of cyclone melting method on release of harmful substances into the atmosphere.

Comments:

Publication: Works
Trudy

SU	032	GOV	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Kazakhstan Oncology and Radiology Research Institute
Nauchno-Issledovatel'skii Institut Onkologii i Radiologii

050; 056; 104; 169;

See also 027; 009; 031;

ADDRESS:

Alma-Ata

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	B. A. Nemenko	

AP aims and actions:

Research Areas: Concentration of 3.4 benzo(a) pyrene in the air of industrial cities in Kazakhstan

Comments:

Publication: Works
Trudy

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	035	GOV	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	~~8~~ ~~7~~

NAME: Voeikov Main Geophysical Observatory

Glavnaia Geofizicheskaia Observatoriia im. A. I. Yoeikova

174; 192; 036-039;

See also 052-058

ADDRESS:

Leningrad
Ulitsa Karbysheva, 6

Tel.:

AFFIL:

Main Hydro-Meteorological
Administration of the Council
of Ministers of the USSR

Title	PERSONNEL	Function
Dr.	M. S. Berliand	Head Dept. of Air Pollution and Atmospheric Diffusion
	90 Workers	

AP aims and actions: Research Areas: Transport and Diffusion of Pollution; Air Quality Monitoring (The Observatory operates a national air sampling network for SO_2, CO and particulate matter.)

Research Facilities: Light plane, helicopter, instrumented towers (uses wind tunnel of University of Moscow (Lomonosov).

Comments:

Dr. Berliand is Chairman of the council, government on science and technology on "Atmospheric pollution and its influence on humans and the environment".

SU 035

Publications: Temporary Instructions of the Hydro-Meteorological Service Administration on the analysis of data on the composition of air pollution "Leningrad, 1968; Works (Trudy).

Instructions for the Determination of the dispersion of harmful substances into the atmosphere (Dust and Sulfur Dioxide) contained in the effluents of industrial enterprises, SN 369-67 (1967) official edition.

Department of Air Pollution and Atmospheric Diffusion

Laboratory for Development of Air Pollution Control
    Methods - 10 - 20 workers
Laboratory of Chemistry and Physics
    15 workers (Methods of Ambient air analysis)
Sector on Air Pollution Information - 15 persons
Theoretical Group - 15 persons
Field Teams
    Observation points in field - 100 to 200.

SU	036	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Scientific Research Institute of Aeroclimatology

Nauchno-Issledovatel'skii institut aero Klimatologii

ACRONYM: NIIAK

See also 035-039; 052-058; 174; 192

ADDRESS:

Moscow
Ulitsta Voroovokogo, 33/35

Tel.:

AFFIL:
Main Hydro-Meteorological
Administration of the Council of
Ministers of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Atmospheric circulation:
Climatology: Forecasting

Comments:

Publications: Works
Trudy

SU	034	GOV	~~A~~ B C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central Disinfection Research Institute

See also 022; 023

ADDRESS:

Moscow

Tel.:

AFFIL:

Title	PERSONNEL	Function
	T. M. Voronkina	

AP aims and actions:

Research Areas: Measurement of DDT and Lindane in the Atmosphere

Comments:

SU	038	GOV	[✓ A]	B	C	D	E	[✓ F]	01	02	03	04	05	11	12	13	14	15	21	22	23	[✓ 24]	25	31	32	33	34	35	L	M	[✓ S]	1	2	[✓ 3]	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Far-Eastern Scientific Research Hydrometeorological Institute (see below)

ACRONYM: DV NIGMI

See also 174; 192; 052-058; 035-039;

ADDRESS:

Vladivostok

Tel.:

AFFIL:

Main Hydro-Meteorological Administration of the Council of Ministers of the USSR

Title	PERSONNEL	Function 030

AP aims and actions:

Research Areas: Air-sea Interchange: Anti-Cyclonic Circulations, Solar Radiation.

Comments:

Publications: Works
Trudy

Russian Name: Dal-nevostochnii nauchno-issledovatel'skii gidrometeorologicheskii institut

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SU	037	GOV	[✓ A]	B	C	D	E	F	01	02	03	04	05	11	12	13	14	15	21	22	23	[✓ 24]	25	31	32	33	34	35	[✓ L]	M	S	[✓ 1]	2	3	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Institute of Experimental Meteorology

Institut Eksperimental'noi Meteorologii

174; 192: 052-058;

See also 035-039

ADDRESS:

Moscow

Tel.:

AFFIL:

Main Hydro-Meteorological Administration of the Council of Ministers of the USSR

Title	PERSONNEL	Function
	In Air Pollution: 10 people	

AP aims and actions:

Research Equipment: 300 meter instrumented tower.

Research Areas: Atmospheric Turbulence

Comments:

SU	040		~~A~~ B C D E F	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: L. Ya. Karpov Physical Chemistry Research Institute

Nauchno-Issledovatel'skii Fiziko-Khimicheskii Institut im. L. Ya. Karpova

ACRONYM:

See also 039; 187

ADDRESS:

Moscow
Ulitsa Obukha, 10 (WL)

Tel.:

AFFIL:

Academy of Sciences
of the USSR

Title	PERSONNEL	Function
Prof.	Fuks	Aerosol Research
Acad.	Petrianov	Filtration "
	Lisovski	Catalysis "

AP aims and actions:

Broad-scale Research; Aerosol, Filtration and Catalysis Research

Comments:

A leading scientific-research organization.

SU	039	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Physics of the Atmosphere

Institut Fiziki Atmosfery

ACRONYM: IFA

See also 174; 192; 052-058; 035-040

ADDRESS:

Moscow
Bol'shaia Gruzinskaia Ulitsa,10

Tel.:

AFFIL:

Academy of Sciences of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Light scattering and visibility in the atmosphere: Temperature measurement in the upper air: Acoustic sounding methods.

Comments:

Publications: Works
Trudy
Has research stations at Lopavskaya, Lutsino, Roschmo, Severnaia, and Tsimlyansk.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	042	GOV	✓ ✓ C D E ✓	✓ ✓ ✓ ✓ ✓	✓ 12 13 ✓ 15	21 ✓ 23 24 25	31 32 33 34 35	✓ M S	✓ 2 3	1969	✓ ✓

NAME: Erisman Moscow Hygiene Research Institute

Moskovskii Nauchno-Issledovatel'skii Institut Gigieny im. F. F. Erismana

126; 166-8; 007;

See also 045; 023; 043; 046

ADDRESS:

Moscow
Pyatnitskaia Ulitsa, ½

Tel.:

AFFIL:

Ministry of Public Health
of the RSFSR

Title	PERSONNEL	Function
	Yu. V. Abramova	
	B. K. Baikov	
	F. I. Dubrovskaia	
	N. A. Efimov	
	E. V. Elfimova	
	S. V. Eting	
	Yu. G. Fel'dman	
	R.S. Gil'denskiol'd	Sr. Research Associate

AP aims and actions: Research Areas: Air Quality in Lithuania, Rostov-on-the-Don, Kalanin, Moscow, Noril'sk, Gubahi; Measurement of Aerosol, Phenylhydrazine, Styrene, C_1 to C_9 Monocarboxylic acids, Dibutyl Phyhlate, d-methly-sty ene, vinyl acetate; carbon monoxide from automobile exhaust; Pollution from steel making, thermometer manufacture, coal mines, acid manufacture and metallurgical plants on the population. Air Pollution Instrumentation.

Comments:

Publications: Scientific Notes of the Institute
Uchenye Zapiski Instituta Sanitarii i Gigieny im. F. F. Erismana.

SU 042

Additional Personnel:

M. I. Gusev
M. K. Kharakhinov
Ya. K. Iushko
N. I. Kaznina
N. A. Krylova
V. P. Melekhina
L. G. Milokostova
E. P. Nagornova

O. S. Naumova
S. K. Nenasheva
K. A. Prokopenko
B. V. Rikhter
I. V. Roshchin
V. M. Stiazhkin
A. S. Vasilev
P. N. Zhilin

SU	043	GOV	A B ~~C~~ D ~~E~~ F	~~06~~ ~~07~~ ~~08~~ ~~09~~ ~~10~~	~~11~~ 12 13 ~~14~~ 15	~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~	~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~	~~L~~ M S	~~1~~ 2 3	1969	[illegible]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Moscow Sanitary-Epidemiological Station
Sanitornaia Epidemiologicheskaia Stantsiia Goroda Moskvy

ACRONYM:

See 166-8; 011; 044;
also 042; 060

ADDRESS:

Moscow
Grafskii Pereulok, 4/9

Tel.:

AFFIL.:

Ministry of Public Health
of the RSFSR

Title	PERSONNEL	Function
Dr.	M. S. Sokolovskii	Director
	D. P. Partsev	Head, Air Pollution Lab.
	K. V. Jakovleva	Head Air Pollution Section
Dr.	V. V. Rodionov	Deputy Chief Sanitary Physician
	E. H. Gol'dberg	
	K. P. Panin	

AP aims and actions: Air Pollution Laboratory - 5 Physicians, 1 Engineer, 4 Chemists, 6 Lab. workers

Research Areas: Measurement methods for fluorine, CO_2 and automotive exhaust gases in air.

Comments:

Publication:
Information Bulletin

(See attached table for Structure of the Station.)

SU 043

The Station has an air sampling network of 29 Stations to measure SO_2, CO, Formaldehyde, dust and soot .

It organizes training courses for sanitary physicians, in cooperation with medical institutes. It provides a two year internship for sanitary physicians.

All new plans for new industrial enterprises in Moscow must be submitted to the station for approval .

The sanitary physicians of the Station may: fine offenders, halt plant operations, and, in extreme cases, cause offenders to be brought before the Public Prosecutor for trial

Helps develop data for Maximum Allowable Concentration of Atmospheric Pollutants, regulations for their application and development of Sanitary Protection Zones.

TABLE I. THE STRUCTURE OF THE MOSCOW CITY SANITARY-EPIDEMIOLOGICAL STATION

A. Supervising Authorities

1. Ministry of Health of the USSR - Chief Sanitary-Epidemiological Directorate
2. Ministry of Health of the RSFSR - Chief Sanitary-Epidemiological Directorate
3. Moscow City Department of Health

B. Collaborating Institutions and Advisory Bodies

1. City Scientific and Professional Societies of Sanitary Physicians, Epidemiologists and Specialists for Communicable Diseases (2)
2. Chairs of Hygiene and Epidemiology (8)
3. Research Institutes in Hygiene and Epidemiology
4. Sanitary-Technical Expert Advisory Council
5. Council of Sanitary 'Fel'dšers' (Medical Assistants)
6. Council of the Public
7. Sanitary-Epidemiological Council on Co-ordination and Methodology
8. Sanitary Epidemiological Stations of other Government Departments (Ministries)

C. Internal Organization of the Moscow City 'Sanepid' Station

(a) Division of Sanitary Hygienic Activities

1. Department of General and Municipal Hygiene and Sanitation

Sections	Laboratories
Sanitary Supervision of Planning	Sanitary Chemistry
Sanitary Protection of Ambient Air	Physico-Chemical Methods
Hygiene and Sanitation of Housing	
Hygiene and Sanitation of Public Buildings, and Therapeutic and Prophylactic Establishments	
Water Supply and Sanitary Protection of Water and Soil	

2. Department of Occupational Hygiene and Industrial Sanitation

Sections	Laboratories
Physiology of Work and Occupational Pathology	Industrial Sanitary Chemistry
Industrial Sanitation	Physical Methods of Analysis
	Toxicology

3. Department of Nutrition Hygiene and Food Sanitation

Sections	Laboratories
-	Sanitary Chemistry
	Toxic Residues in Food

4. Department of Childrens' and Adolescents' Health and of School Sanitation

Sections	Laboratories
-	Sanitation and Hygiene
	Physico-Chemical Methods

(b) Division of Epidemiological Activities

1. Department of Epidemiology and Microbiology

Sections	Laboratories
Epidemiology	Epidemiological Bacteriology
Registration of Communicable Diseases	Viral and Rickettsial Infections
Rabies Control	

2. Department of Communicable Diseases

Sections	Laboratories
Epidemiology	Investigation of Communicable and Rare Infections
Zoological Parasitology	
Sanitary Quarantine	
Vaccination	

3. Department of Parasitology

Sections	Laboratories
Epidemiology	Malaria and Helminthiasis
Entomology	
In-Patient Department	

(c) General Departments

1. Department of General Laboratories

Sections	Laboratories
-	Sanitary Bacteriology
	Acoustics and Vibrations
	Radiation Hygiene

2. Department of Organization and Methodology

Sections	Laboratories
Organization and Methodology	
Statistics	-
Medical Library	

3. Department of Administration and Management

Sections	Laboratories
Administration	-
Budget and Finance (Accounting)	
Economy and Supplies	

D. Sub-Ordinate Organizations

1. 'Rajon' Sanitary Epidemiological Stations (17)
2. Sanitary-Epidemiological Stations of: Zelenograd
   'Metropolitan'
   Exhibition of Soviet Economic Achievements
3. City Disinfection Station and Inter-'Rajon' Disinfection Departments
4. City Health Education Centre and 'Rajon' Health Education Centres
5. City Post for Transport of Infectious Patients

SOKOLORSKIJ, M. S., "The Moscow City Sanitary-Epidemiological Station," in "Air Pollution Control" EP/68.2. World Health Organization. Geneva, Switzerland. p. II-30-1, (1968).

SU	044	GOV	A B ~~C~~ D ~~E~~ F	~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~	~~11~~ 12 13 ~~14~~ 15	~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~	~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~	L ~~M~~ S	1 ~~2~~ 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Volvograd Sanitary-Epidemiological Station
Sanitarno-Epidemiologicheskaia Stantsiia Goroda Volgograda

162; 186

See also 011; 043; 166-8

ADDRESS:
Volvograd

Tel.:

AFFIL:
Ministry of Public Health
of the RSFSR

Title	PERSONNEL	Function
Dr.	D. K. Drozdova	Chief Sanitary Physician
Dr.	V. P. Borodin	Chief

AP aims and actions: Works on Air Pollution Control with:
Volvograd Aluminum Works
Volvograd Gypsum Works
Mikhaikov Cement Works
Volvograd Lamp-black Works
Volzhky Chemical Works

Comments: Organization:
1. Dept. of Prevention & Control of Epidemics.
Epidemiology, Parisitology, Disinfection, Communicable Diseases.
2. Sanitary Department:
Divisions: Municipal Hygiene
Industrial Hygiene & Sanitation
Nutritional Hygiene
School Hygiene

SU	041	GOV	~~A~~ B C D E F	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Chemical Kinetics and Combustion
Institut Khinnicheskoi Kinetiks i Goveniya

ACRONYM:

See also 098-9; 049; 023

ADDRESS:
Novosibirsk

Tel.:

AFFIL:
Siberian Department of the Academy
of Sciences of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Combustion: Free-Radical reactions.

Comments:

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	045	GOV	~~A~~ ~~B~~ C D E ~~F~~	~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~	~~11~~ 12 13 ~~14~~ 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	~~5~~	/

NAME: Marzeev General and Communal Hygiene Research Institute
Nauchno-Issledovatel'skii Institut Obshchei i Kommunal'noi Gigieny im. A. N. Marzeeva

ACRONYM:

See also 007; 042; 046; 126

ADDRESS:
Kiev
Kirova, 7

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	Denis N. Kaliuzhnyi	Director
	Omelianets	Scientific Secretary
	N. Ya. Ianysheva	Chief Dept. of Hygiene of the Atmosphere
	K. V. Grigor'eva	Chief, Air Hygiene Lab.
	Kvitnitskaia	Chief, Carcinogenic Substances Lab.
	M.V. Kryzhanovskaia	Chief, Synthetic Allergic Sub. Lab.

AP aims and actions: Research Areas: Effluents from Coke Ovens, Ferrous Metallurgical Plants, Superphosphate Plants; Effect of Mg-Mn and Mg-Zn Ferrite dust on experimental animals; Measurement of 1, 12, Benzperylene in Air; Allergenic Substances in the air. Institute has 250 persons; 100 on contract work; 30+ on Air Pollution.

Comments: Publications: "Questions of the Hygiene of Populated Places." Yo prosy Gigieny Naselennykh Mest

SU 045

Additional Personnel:
L. E. Andrienko
M. B. Aksel'rod
E. D. Bakalinskaia
H. V. Balenko
Yu. P. Tsiashchenko
N.P. Gordynia
I.S. Kireeva
P.A. Korotkov
N.N. Sevzhantova
A.N. Sviatenko

Air Hygiene Laboratory (12 persons)
1. Methodology of Chemical Analysis
2. Toxicology of Chemical Substances
3. Planning and Air Pollution

Also publishes its "Collected Works" (Sbornik Trudov)

SU	046	GOV	~~A~~ ~~B~~ C D E ~~F~~	~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~	~~11~~ 12 13 ~~14~~ 15	21 ~~22~~ 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969		S [illegible]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Natadze Research Institute of Hygiene and Sanitation

Nauchno-Issledovatel'skii Institut Gigieny i Sanitarii im. Natadze

053; 160; 049

See also 126; 007; 042; 045

ADDRESS:

Tbilisi
9 Vachnadze Street

Tel.:

AFFIL:

Ministry of Public Health
of the Georgian SSR

Title	PERSONNEL	Function
	M.S. Avetikov	
	Ya.K. Babutsidze	
	N. Bediashvili	
	N.A. Dzhanuashvili	
	Y.Ya.Dzhindzhikhadze	
	N.K. Dzhibuti	
	K.G. Egdrova	

AP aims and actions: Research Areas: Air quality in Tbilisi: Effluents from coke ovens, chemical plants, cement plants, power plants, metallurgical plants and oil refineries: Effects of BAP on health: Air Quality criteric for SO_2 and NO_2: Formation of pyridine in the atmosphere: Pollution from gypsum and diatomaceous earth quarries.

Comments:

Publications: Collected Works
Sbornik Trudov

SU 046

Additional Personnel:

L. Z. Gomelauri
I. G. Kavzharadze
C. S. Kristesashvili
G. Kvachantiradze
M. Mamatsashvili

A. A. Mtvarelidze
S. E. Pirchalava
T. I. Somharadze
I. I. Shengelia
O. P. Schalamberidze
N. Z. Trach

SU	047	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Armenian Akopian Institute of Epidemiology and Hygiene

Armianskii Institut Epidemiologii i Gigieny im. Akopiana

See also 024-030; 048; 128; 131-3

ADDRESS:

Tel.:

AFFIL:

Ministry of Public Health
of the Armenian SSR

Title	PERSONNEL	Function
	A. O. Avoian	
	A. S. Mnatsakonian	
	M. I. Nikogosian	

AP aims and actions:

Research Areas: Hygiene and toxicology of chloroprene as an Air Pollutant; Health effects of pollutants on school children; Effectiveness of gas-cleaning installations in aluminum reduction plant.

Comments:

Publications: Collected Works
Sbornik Trudov

SU	048	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Azerbaidzhan Research Institute of Epidemiology,

Microbiology and Hygiene (see below)

136

See also 024-030; 047; 131-1; 128

ADDRESS:

Baku,
Ulitsa Gamalei, 23

Tel.:

AFFIL:
Ministry of Public Health of the
Azerbaidzhan SSR

Title	PERSONNEL	Function
	M. H. Musina	
	E. N. Panchishina	

AP aims and actions:

Research Areas: Pollution by auto transport exhaust gases in Baku and effects on the population.

Comments:

Publication: Work
Trudy

Russian Name: Azerbaidzhanskii Nauchno-Issledovatel'skii Institut Epidemiologii, Mikvobiologii i Gigieny

SU	049	GOV	[✓ A] B C D E F	01 02 [✓ 03] 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Inorganic and Electro-chemistry

Institut Neorganicheskoi i Elektrokhimii

053; 160; 046

See also 041; 050; 187

ADDRESS:

Tbilisi
Ulitsa Z. Rukhadze, I

Tel.:

AFFIL:

Academy of Sciences of the
Georgian SSR

Title	PERSONNEL	Function
Dr.	D. N. Landia	

AP aims and actions:

Comments:

May have formerly been "Institute of Applied Chemistry and Electrochemistry" (Institut prikladnoi Knimii i elektrokhimii).

SU	050	GOV	[✓ A] B C D E [✓ F]	[✓ 01] 02 [✓ 03] 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Chemical Sciences

Institut Khimecheskikh Nauk

104; 169; 027; 032; 056

See also 041; 049

ADDRESS:

Alma - Ata,
Uygurskaia, 85

Tel.:

AFFIL:

Academy of Sciences
of the Kazakh SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Catalytic Afterburners for Automobiles.

Comments:

Publications: Works
Trudy

SU	051	GOV	~~A~~ B C D E F	01 02 ~~03~~ 04 05	11 ~~12~~ 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Forestry Problems and Chemistry of Wood Pulp

Institut lesokhozyaystvennykh problem i Khimii drevisiny

105; 171

See also 061; 123; 175

ADDRESS:

Riga

Tel.:

AFFIL:

Academy of Sciences of
the Latvian SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Wood Pulp

Comments:

SU	052		~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Physics and Geophysics

Institut fiziki i geofiziki

174; 192; 035-039;

See also 053-058

ADDRESS:

Ashkabad

Tel.:

AFFIL:

Academy of Sciences of the
Turkmen SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Solar Radiation Intensity

Publications: Works
Trudy

Comments:

SU	053	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tbilisi Scientific Research Hydro-Meteorological Institute
Tibilisskii Nauchno Issledovatel'ski Cidro-Meteorologicheskii Institut

046; 049; 160

See also 174; 192; 035-039; 052-058

ADDRESS:
Tbilisi

Tel.:

AFFIL:

Title	PERSONNEL	Function
		ACRONYM: TMIGMI

AP aims and actions:

Research Areas: Local Atmospheric Circulations.

Comments:

Publications: Works
Trudy

SU	054	GOV	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 ~~32~~ 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central Aero-Hydrodynamics Institute im. N. Ye. Zhukovsky
Tsentral'nyi aero-gidrodinomicheskii Institut im. N. Ye. Zhukovskogo

ACRONYM: TsAGI

See also 174; 192; 035-039; 052-058

ADDRESS:
Moscow
Ulitsa Radio

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Gas dynamics, industrial aerodynamics; Combustion Research Facilities; Wind Tunnels

Comments:

Publication: "Promshlennaya Aerodinamika"

SU	055	GOV	[✓] B C D E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓] 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central-Asian Scientific Research Hydrometeorological Inst.
Sredneaziatsky Nauchno-Issledovatel'skii gidrometeorologicheskiy Institut

ACRONYM: SA NIGMI

See also: 020; 022; 139

ADDRESS:

Tashkent

Tel:

AFFIL:

Title	PERSONNEL	Function
		174; 192; 035-039; 052-058;

AP aims and actions:

Research Areas: Wind measurement; Atmospheric Turbulence

Comments:

Publications: Works
Trudy

SU	056	GOV	[✓] B C D E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓] 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kazakh Scientific Research Hydrometeorological Institute
Kazakhskii nauchno issledovatel'skii gidrometeorologicheskii Institut

027; 037; 050; 106; 169

See also: 174;192;035-039; 052-058

ADDRESS:

Alma-Ata

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Atmospheric ozone: Turbulence: Forecasting of weather elements.

Comments:

Publications: Works
Trudy

SU	057	GOV	[✓] B C D E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Ukranian Scientific Research Hydrometeorological Institute
Ukrainskii nauchno issledovatel'skii gidrometeorologicheskii Institute

ACRONYM: UKrNIGMI

See also 174; 192; 035-039; 052-056; 058

ADDRESS:
Kiev
Ulitsa Tolstogo, 14

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Climatology; Forecasting of Weather Elements.

Comments:

Publications: Works
Trudy

SU	058	GOV	[✓] B C D E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓] 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Scientific Research Institute of Hydrometeorological Instrument Building (see below)

ACRONYM: NIIGMP

See also 174; 192; 199; 035-039; 052-057

ADDRESS:
Moscow
Pereulok Pavlika Morozova, 12

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Design and construction of meteorological measuring instruments and telemetering systems for sondes and stationary installations.

Comments:

Publications: Works
Trudy

Russian Name: Nauchno-Issledovatel'skii institut gidrometeorologicheskogo priborostroieniia

SU	059	GOV	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 [✓ 13] [✓ 14] 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Town Planning Research Institute

ACRONYM:

See also 060; 194; 186; 184

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	Y.A. Shkyarikov	Director
	I.M. Smollar	Deputy Director
	I. Ya. Kontorovits	
	S.B. Christiakova	
	M.G. Prutkov	

AP aims and actions:

Comments:

SU	060	GOV	[✓ A] B C [✓ D] E F	01 02 03 04 05	11 12 [✓ 13] [✓ 14] 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Moscow City Planning Institute

Institut General'nogo Plana Goroda Moskvy

186; 184

See also 059; 043; 194

ADDRESS:

Moscow

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Cooperates with Moscow Sanitary-Epidemiological Station on Air Pollution Control Planning for Moscow

SU	061	GOV	A [✓ B] C D E F	01 02 03 04 05	11 [✓ 12] 13 14 [✓ 15]	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: All-Union V.I. Lenin Academy of Agricultural Sciences

ACRONYM:

See also 051; 123; 175

ADDRESS:

Moscow
Bolshoi Kharitonevsky
pev. 21

Tel.:

AFFIL:

Title	PERSONNEL	Function
	73 Academicians	
	74 Corresponding Members	

AP aims and actions:

Controls 35 Research Institutes
16 Central Research Institutes
Central Scientific Library

Comments:

SU 061

Divisions:

1. Farming
2. Animal Husbandry
3. Mechanization & Electrification of Agriculture
4. Silviculture and Improvement of Agriculture & Forestry
5. Hydraulic Engineering and Soil Improvement
6. Economics and Organization of Agricultural Production.

SU	062	ASN	A ~~B~~ C D E F	01 02 03 04 05	/ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	/ M S	/ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Scientific Society of Medical Hygienists
Vse-Soiuznoe nauchno-meditsinskii Obshchestvo Gigienistov

ACRONYM:

See also

ADDRESS:

Moscow
Pogodinskaya Ulitsa, 10

Tel.:

AFFIL: Council of USSR Scientific
Medical Societies
Moscow
Rakhmanovsky pev. 3 (002)

Title	PERSONNEL	Function
Prof.	F.G. Krotkov	Director
Dotsent	G.I. Murav'eva	Secretary
	(Central Institute of Advanced Medical Studies, Moscow)	

AP aims and actions:

Comments:

Has branches in all Republics and Major Cities.

SU	064	IND	/ B C D E F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	/ M S	/ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Engineering Design Gas Cleaning Institute

ACRONYM: Giprogazochistka

See also 181; 076; 120; 063-069

ADDRESS:

Moscow
Savvitskaia Naberezhnaia, 3

Tel.:

AFFIL: All-Union Cooperative for Gas Cleaning and Dust Control (063)
Ministry of Oil Refining and Petrochemical Industry of the USSR

Title	PERSONNEL	Function
	Kozlov	Director
	Andrianov	Chief Engineer
	Together with Leningrad Institute has 900 people.	

AP aims and actions:

Project Engineering for Air and Gas Cleaning Installations and Equipment; Installation and Supervision.

Comments:

SU	063	IND	~~A~~ B C ~~D~~ ~~E~~ F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	1969
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date

NAME: All-Union Co-operative for Gas Cleaning and Dust Control

Yse-Soiuznoe Ob'edinenie Gazochistki i Pyleulavlyvaniia

ACRONYM: Gazoochistka

See also 063-069; 076; 120; 181

ADDRESS:

Moscow
Savvitskaia Naberezhnaia, 3

Tel.:

AFFIL:

Ministry of Oil Refining and
Petrochemical Industry
of the USSR

Title	PERSONNEL	Function
	M.F. Skachko	Director
	V.A. Gagarinskii	Engineer, Insp. Service
	A.G. Smirnov	Sr. Research Assoc. Head of Inspection Service
	Podoshevnikov	Director of Niiogaz
	V.N. Uzhov	Deputy " "
	Idel'tshik	Head of Aerodynomics Lab.
	Total of 300 people in org.	

AP aims and actions: Inspection Service:

1. Periodically inspects dust-collecting and gas cleaning installations.
2. Supervises construction and maintenance of such equipment.
3. Ensures that operating and safety instructions are followed.
4. Ensures that the emission limits of the Ministry of Public Health are adhered to.

Comments:

SU 063

Organization Comprises:

1. Scientific Research Gas Cleaning Institutes (Niiogaz) Moscow, Zaporozke, Semi-brat'evo, and Dzerzhinsk; and Aerodynamics Laboratory.
2. Engineering Design Gas Cleaning (Giprogazochistka) Moscow and Leningrad.
3. Inspection Service (45 people).
4. Factories (Semibrat'evo).

Inspection service may enter any industrial enterprise at any time; issue instructions with regard to the operation of gas cleaning equipment; close down equipment which is functioning improperly or dangerously; initiate legal prosecution in cases of serious non-compliance; issue permits required by law for operation of gas cleaning installations. The Inspection Service prescribes Emission Standards which must be complied with.

The All-Union Cooperative serves as a consulting and inspection organization for other ministries. The factories of the All-Union Cooperative manufacture a complete line of industrial gas cleaning equipment; electrostatic precipitators, scrubbers; centrifugal and inertial collectors and bag houses.

SU	065	IND	/ B C D E F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	/ M S	/ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Engineering Design Gas Cleaning Institute

ACRONYM: Giprogazochistka

See also 181; 076; 120;063-9

ADDRESS:

Leningrad

Tel.:

AFFIL.: All-Union Co-operative for Gas-Cleaning and Dust Control (063)
Ministry of Oil Refining and Petrochemical Industry of the USSR

Title	PERSONNEL	Function
	Gulin	Director
	Belivitskii	Chief Engineer
	Together with Moscow Institute has 900 people.	

AP aims and actions:

Project Engineering for Air and Gas cleaning installations and Equipment; Installation and Supervision.

Comments:

SU	066	IND	/ B C D E /	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	/ M S	/ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: State Scientific Research Gas Cleaning Institute
(see below)

ACRONYM: NIIOGAZ

See also 181; 076; 120;
063-069

ADDRESS:

Moscow
Ulitsa Chkalova, 50

Tel.:

AFFIL.: All-Union Co-operative for Gas-Cleaning and Dust Control
Ministry of Oil Refining and Petrochemical Industry of the USSR

Title	PERSONNEL	Function
Mrs.	N. P. Pitelina	Deputy Director (Moscow)
	Together with Zaporozke, Senibrat'evo and Dzerzhinsk Institutes has 900 people.	

AP aims and actions:

Research Areas: Gas cleaning and dust collection
Provides post-graduate training for Sanitary Engineers.

Comments:

Publications: Works (Trudy)

Russian Name: Cosudarstrennii nauchno-issledoratel'skii institut po promyshlennoi i sanitarnoi ochistke gazov

SU	067	IND	~~A~~ B C D E F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: State Scientific Research Gas Cleaning Institute

(see below)

ACRONYM: NIIOGaz

See also 181; 076; 120;063-9

ADDRESS:

Semibrat'evo

Tel.:

AFFIL: All-Union Co-operative for Gas Cleaning and Dust Control (063)
Ministry of Oil Refining and Petrochemical Industry of the USSR

Title	PERSONNEL	Function
	Together with Moscow, Zaporozke and Dzerzhmsk Institutes has 90 people.	

AP aims and actions:

Research Areas: Gas Cleaning and Dust Collection provides post-graduate training for sanitary engineers.

Russian Name: Gosudarstvennii nauchno-isslebovatel'skii institut po promyshlennei i sanitarnoi ochistke gazov.

Comments:

A factory for manufacturing gas cleaning equipment is located at Semibrat'evo.

SU	068	IND	~~A~~ B C D E F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	1969		S /
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: State Scientific Research Gas Cleaning Institute

(see below)

ACRONYM: NIIOGaz

See also 181; 120; 076; 063-9

ADDRESS:

Dzerzhinsk

Tel.:

AFFIL: All-Union Co-operative for Gas Cleaning and Dust Control.
Ministry of Oil Refining and Petrochemical Industry of the USSR

Title	PERSONNEL	Function
	Together with Moscow, Semibrat'eve and Zaporozhe Institutes has 900 people.	

AP aims and actions:

Research Areas: Gas Cleaning and Dust Collection provides post-graduate training for Sanitary Engineers.

Comments:

Russian Name: Gosudarstrennii nauchno-issledovatel'skii institut po promyshlennoi i sanitarnoi ochistke gazov.

SU	069	IND	~~A~~ B C D E F	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	1969	S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: State Scientific Research Gas Cleaning Institute

(see below)

ACRONYM: NIIOGaz

See also 076;120;181;063-9

ADDRESS:

Zaporozhe

Tel.:

AFFIL: All-Union Co-operative Gas-Cleaning and Dust Control
Ministry of Oil Refining and Petrochemical Industry of the USSR

Title	PERSONNEL	Function
	Together with Moscow, Semibrot'eve and Dzorzhinsk Institutes has 900 people.	

AP aims and actions:

Research Areas: Gas Cleaning and Dust Collection provides post-graduate training for Sanitary Engineers.

Comments:

Russian Name: Gosudavstrennii nauchno-issledovatel'skii institut po promyshlennoi i sanitarnoi ochistke gazov.

SU	070	IND	~~A~~ B C D E F	~~01~~ ~~02~~ ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: All-Union Scientific Research Oil Refining Institute
Vse-Soiuznyi Nauchno-Issledovatel'skii Institut po Pererabotke Nefti

071; 072; 100;

See also 114-117; 181

ADDRESS:

Moscow

Tel.:

AFFIL:
Ministry of Oil Refining and Petrochemical Industry of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Fuel Additives

Comments:

SU	071	IND	[✓ A] B C D E [✓ F]	01 02 [✓ 03] 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Central Scientific Research Institute of Technological Research in Oil Refining and Oil Chemistry (see below)

ACRONYM:

See also 070; 072; 100; 114-117;181

ADDRESS:

Tel.:

AFFIL:
Ministry of Oil Refining and
Petrochemical Industry of the
USSR

Title	PERSONNEL	Function
	N. I. Novikov	

AP aims and actions:

Research Areas: Air Pollution for Oil Refineries

Publications: Design Experience in Oil Refining and Oil Chemical Enterprises Series.

Russian Name: Tsentral'nyi Nauchno-Issledovatel'skii Institut Tekhnologicheskikh Issledovanii Neftopererabotki i Neftekhimii.

Comments:

SU	072	IND	[✓ A] B C D E [✓ F]	01 02 [✓ 03] 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Government Scientific Research and Design Institute of Petroleum Machine Building (see below)

ACRONYM: Giproneftemash

See also 070; 071; 100; 114-117; 181

ADDRESS:

Tel.:

AFFIL:
Ministry of Oil Refining and
Petrochemical Industry of the
USSR

Title	PERSONNEL	Function

AP aims and actions:
Develops oil refining equipment.
Operates test stations in Volgagrad and Irkutsk.
Collaborates with Niiogaz on cyclone design.

Comments:
Publications: Works (Trudy)
Russian Name: Gosudarstvennyi Nauchno-Issledovatel'skii i Proektnyi Institut Neftianogo Mashinostroeniia.

SU	073	IND	~~A~~	B	C	D	E	~~F~~	01	~~02~~	~~03~~	04	05	11	12	13	14	15	21	22	23	24	25	~~31~~	32	33	34	35	L	M	~~N~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: All-Union Natural Gas Scientific Research Institute

Vse-soiuznyi nauchno-issledovatel'skii institut prirodnogo gaza

ACRONYM: VNIIGaz

See also 108; 113; 124; 181

ADDRESS:

Moscow
1-y Dmitrovskii proyezd, 10

Tel.:

AFFIL.:
Ministry of Natural Gas
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Production and Use of Natural Gas Institute has Uzbek branch.

Comments:

Publications: Works
(Trudy)

SU	074	IND	~~A~~	B	C	D	E	~~F~~	01	~~02~~	~~03~~	04	05	11	12	13	14	15	21	22	23	24	25	~~31~~	32	33	34	35	L	M	~~N~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Eastern Coal Chemistry Research Institute

Vostochnyi Nauchno-Issledovatel'skii Uglekhinicheskii Institut

ACRONYM: VUKhTN

See also 019; 078; 101; 158

ADDRESS:

Sverdlovsk
Ulitsa 8-go Marta, 14

Tel.:

AFFIL.:
Ministry of Coal Industry of the
USSR

Title	PERSONNEL	Function 103; 112; 124; 173

AP aims and actions:

Research Areas: Properties of various coals; coking.

Institute has branch in Kiyesnetsk

Comments:

Publications: Scientific-technical information bulletin.

Works (Trudy)

SU	075	IND	[✓ A] B C D E [✓ F]	01 02 [✓ 03] 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 [✓ 35]	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Government Research and Design Institute for the Nitrate Industry and the Products of Organic Synthesis (see below)

ACRONYM: GIAP

See also 182; 188; 092

ADDRESS:

Moscow
Ulitsa Chkalova, 50

Tel.:

AFFIL:

Ministry of Chemical Industry of the USSR

Title	PERSONNEL	Function
	V.V. Lebedev	

AP aims and actions:

Research Areas: Air Pollution from "Karbalid" Production: Catalysis; Fertilizer Industry

Institute has branches in Chirchik, Dzerzhinsk and Lisichansk.

Comments:

Russian Name: Gosudarstvennyi Nauchno-Issledovatel'skii i Proektnyi institut Azotnoi Promyshlennosti i Produktov Organicheskogo Sinteza

Publications: Works (Trudy)

SU	076	IND	[✓ A] B C D E F	01 02 03 [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Gas Cleaning Research Institute of the Iron and Steel Industry

ACRONYM:

See also 063-069; 120

ADDRESS:

Tel.:

AFFIL:

Ministry of Ferrous Metallurgy of the USSR

Title	PERSONNEL	Function
	S. Belinski	

AP aims and actions:

Comments:

SU	077	IND	~~A~~ B C D E F	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Government Union Institute for the Design of Metallurgical Plants (see below)

ACRONYM: Gipromez

See also 197; 094; 101-2; 106-7; 125

ADDRESS:

Moscow
Prospekt Mira, 101

Tel.:

AFFIL: Ministry of Ferrous Metallurgy of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Blast Furnaces; open hearth furnaces.

Has branches in Chelyabinsk, Dnepropetrovsk, Leningrad, Magnetogovsk and Sverdlovsk.

Russian Name: Gosudarstvennyi Soiuznyi Institut Po Proyektirovaniia Metallurgicheskikh Zavodov

Is most likely the same as "State Institute for Planning Metallurgical Plants" (Gosudarstvennyi institut proyektirevaniia metallurgich eskikh zavodov).

Comments:

SU	078	IND	~~A~~ B C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Sverdlovsk Mining Institute

Institut Gornogo Dela Goroda Sverdlovsk

019; 074; 101; 158

See also 099

ADDRESS:

Sverdlovsk
Ulitsa Kuibysheva, 30 (WL)

Tel.:

AFFIL:
Ministry of Ferrous Metallurgy
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Catalytic Afterburners for Internal Combustion Engines.

Comments:

Publications: Works
Trudy

SU	079	IND	[✓ A] B C D E [✓ F]	01 02 03 [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 33 [✓ 34] 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: State Research Institute of Non-Ferrous Metals

Gosudarstvennyi Nauchno-Issledovatelskii Institut Tsvetnykh Metallov

ACRONYM: GINTsvetmet

See also 080; 088; 198

ADDRESS:

Moscow
Ulitsa Durora, 31

Tel.:

AFFIL:

Ministry of Non-Ferrous
Metallurgy of the USSR

Title	PERSONNEL	Function
	G. M. Gordon	Head, Dust Control Laboratory

AP aims and actions:

Research Areas: Smelting of Ores

Comments:

Publications:
Collected Scientific Works
Sbornik Nauchnykh Trudor

SU	080	IND	[✓ A] B C D E F	01 02 03 [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Research and Design Institute of the Aluminum, Magnesium and Electrode Industry (see below)

ACRONYM: Giproalium-inii

See also 079; 088

ADDRESS:

Leningrad
Sredniy prospekt, 80

Tel.:

AFFIL:

Ministry of Non-Ferrous
Metallurgy of the USSR

Title	PERSONNEL	Function

AP aims and actions: Research Areas: Gas and Fume Control in Metallurgical plants. May also be known as State Institute for the Design and Planning of Aluminum Magnesium and Electrode Plants (Gosudarstrennii Institut po proyektirovaniiu Aliuminiyevykh, Magniyevykh, elektrodnykh zavodov).

Comments:

Russian Name: Vse-Soiuznyi Nauchno-Issledovatel'skii i Proektnyi Institut Aliuminovoi, Magnivoi i Elektrodnoi Promyshlennosti

Institute has Ural Branch.

SU	081	IND	[✓ A] B C D E F	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Laboratory for the Prevention of Air Pollution from Internal Combustion Engines

121; 119; 118; 095-6;

See also 110; 001; 082-4; 090 105; 196; 178-9; 189

ADDRESS:

Moscow

Tel.:

AFFIL:

Ministry of Automobile Industry
of the USSR

Title	PERSONNEL	Function
	I.L. Varshavskii	Director
	L.S. Zolotorevskii	Senior Research Associate

AP aims and actions:

Research Areas: Control of automotive engine emissions; Exhaust gas analysis.

Comments:

SU	082	IND	[✓ A] B C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 [✓ 32] 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Central Order of Labor Red Banner Automobile and Automotor Research Institute (see below)

ACRONYM: NAMI

See also 196;105;121;119;118; 110; 081; 090;095-6; 178-9;189

ADDRESS:

Moscow
Automotorniia Ulitsa, 2

Tel.:

AFFIL:

Ministry of Automobile Industry
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Fuel Systems

Russian Name: Tsentral'nyi ordena Trudovogo Krasnogo Znameni Nauchno-Issledovatel'skii Automobil'nyi i Avtomotornyi Institut.

Comments:

Publications: Works (Trudy)

"Razvitiye Konstruktsii Automobilya"

SU	083	IND	~~A~~	B	C	D	E	F	~~01~~	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	~~32~~	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Scientific Research Automobile Institute

Nauchno-Issledovatel'skii Automobil'nyi Institut

196;105;121;119;118;110;

See also 081-84; 090;095-6; 178-9; 189

ADDRESS:

Tel.:

AFFIL:

Ministry of Automobile Industry
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Air Pollution control devices for automobiles

Comments:

SU	084	IND	~~A~~	B	C	D	E	F	~~01~~	02	03	04	05	11	12	13	14	15	~~21~~	22	23	24	25	31	~~32~~	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Automobile Instrument Research Institute

Nauchno-Issledovatel'skii Institut Automobil'nykh Priborov

ACRONYM: NII Avtobri-briborov

See also 199;196;105;121;119; 118;081-4;090;095-6; 110;178-9;189

ADDRESS:

Moscow
Elektroavodskaia Ulitsa, 21

Tel.:

AFFIL:

Ministry of Automobile Industry
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: High energy ignition systems; spark plugs.

Comments:

May be the same as "Scientific Research and Experimental Institute of Motor Vehicle Electrical Equipment and Instruments" (Nauchno-Issledovatel'skii i eksperimental'nii institut automobil'nogo elektrooborudovaniia i priborov).

SU	085	IND	~~A~~	B	C	D	E	~~F~~	01	02	03	04	05	11	12	13	14	15	21	22	23	24	25	31	32	~~33~~	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Sanitary Engineering Research Institute

Nauchno-Issledovatel'skii Institut Sanitarnoi Tekhnologii

ACRONYM:

See also 186;194;087;023;034;184

ADDRESS:

Tel.:

AFFIL:

Ministry of Construction Materials
Industry of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Area: Inertial Separation

Comments:

Publication:
Collected Works
Sbornik Trudov

SU	086	IND	~~A~~	B	C	D	E	~~F~~	01	02	03	04	05	~~11~~	12	13	14	15	21	~~22~~	23	24	25	31	32	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: All-Union Medical Instrument Construction Research Institute

Vse-Soiuznyi Nauchno-Issledovatel'skii Institut Meditsinskogo Priborostroeniia

ACRONYM:

See also 199

ADDRESS:

Moscow

Tel.:

AFFIL:

Ministry of Public Health
of the USSR

Title	PERSONNEL	Function
	N. M. Dantsig G. U. Uskova	

AP aims and actions:

Research Areas: Ultra-violet disinfection of air.

Comments:

Publication: Works
Trudy

SU	087	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 [✓ 14] 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: All-Union Work Safety Research Institute

Vse-Soiuznyi Nauchno-Issledovatel'skii Institut Okhrany Truda

ACRONYM:

See also 85

ADDRESS:

Leningrad

Tel.:

AFFIL:

Ministry of Labor
of the USSR

Title	PERSONNEL	Function
	D.G. Derevianko	
	E.D. Filianskaia	
	T.V. Gasov	
	N.P. Kotovskaia	
	I.E. Tychkova	
	Yu. G. Zuerev	

AP aims and actions:

Research Areas: Measurement methods for CO, CO_2, NH_4, HCL and Benzine

Comments:

Publications: Collected Works
Sbornik Trudov

SU	088	IND	[✓ A] B C D E [✓ F]	01 02 03 [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] [✓ 34] 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: State Institute for Planning Non-Ferrous Metallurgical Enterprises (see below)

ACRONYM: Giprotsvetmet

See also 079-80; 198

ADDRESS:

Moscow
Smolenskaia Sennaia
ploshchad', 30

Tel.:

AFFIL:

State Economic Council
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Ore beneficiation; Sintering; Gas Cleaning.

Russian Name: Gosudarstvennii Institut po proyektirovaniyu predpriyatii promyshlennosti tsvetnikh metallov

Comments:

Institute has branches in Altay, Leningrad, Zaporozhye, and Tashkent.

Publications: Works (Trudy)

SU	089	IND	[✓ A] B C D E [✓ F]	01 [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	31 [✓ 32] 33 [✓ 34] 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Central Scientific Research Boiler-Turbine Institute im. I . I. Polzunov(Also has Moscow Branch) (see below)

ACRONYM: TsKTI

See also 172, 183; 091; 097-8; 104-5; 109 ;111

ADDRESS:

Leningrad
Doroga V. Sosnovku, 16

Tel.:

AFFIL:

State Committee of the Council
of Ministers of the USSR, on
Automation and Machine Building

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Combustion; Cyclone Furnaces

Moscow Branch is called "MOTsKTI" i.e. "Moskovskoie otdeleniye TsKTI".

Comments:

Publications: Works
Trudy

Russian Name: Tsentral'nyi Nauchno-Issledovatel'skii Kotloturbinnyy Institut imeni I. I. Polzunova

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SU	090	IND	[✓ A] B C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Scientific Research Autotractor Institute
Nauchno-Issledovatel'skii autotraktornii Institut

ACRONYM: NATI

See also 196; 105; 121; 081-4; 095-6; 110; 118-9; 178-9; 189

ADDRESS:

Moscow
Verkhniaia Ulitsa, 34

Tel.:

AFFIL:

State Committee of the Council
of Ministers of the USSR, on
Automation and Machine Building

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Fuel pump and injector design.

Comments:

Publications: Works
Trudy

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	091	IND	~~A~~ B C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 ~~32~~ 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S	T

NAME: Scientific Research Institute of Thermal Power Engineering Instrument Construction (see below)

ACRONYM: NII Teploprib- or

See also 172; 183; 199; 089; 097-8; 104-5; 109; 111

ADDRESS:

Moscow
Ol'Khovskaia Ulitsa, 27

Tel.:

AFFIL: State Committee of the Council of Ministers of the USSR on Automation and Machine Building

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Flow meters; Automatic Control Instrumentation.

Comments:

Publications: Works
Trudy

Russian Name: Nauchno-Issledovatel'skii institut teploenergeticheskogo priborostroieniia.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	092	IND	~~A~~ B C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 ~~35~~	L M ~~N~~	1 2 ~~3~~	1969	S	T

NAME: Scientific Research Institute of Fertilizers and Insecto-Fungicides im. Ya V. Samoylov (see below)

ACRONYM: NIUIF

See also 075;182;188

ADDRESS:

Moscow
Leninskii prospekt, 55

Tel.:

AFFIL: State Committee for Chemistry of the Council of Ministers of the USSR

Title	PERSONNEL	Function

AP aims and actions:

A leading research institute in this field.
Research Areas: Manufacture of fertilizers.

Comments:

Russian Name: Nauchno-issledovatel - skii po udobrenzyam i insektofungitsidam im. Ya. V. Samoylova
Publications: Works (Trudy)

SU	093	IND	[✓ A]	B	C	D	E	[✓ F]	01	02	[✓ 03]	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	34	[✓ 35]	L	M	[✓ S]	1	2	[✓ 3]	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: All Union Scientific Research Institute of Synthetic Rubber im. S. V. Lebedev (see below)

ACRONYM: VNIISK

See also 075; 182; 188

ADDRESS:

Leningrad
Gapsal'skaia ulitsa, 18

Tel.:

AFFIL:

State Committee of the Council of Ministers of the USSR on Chemistry

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Development of synthetic rubbers.

Has branches in Yerevan and Voronezh.

Comments:

Publishes: Works
Trudy

Russian Name: Vse-soiuznyi Nauchno-Issledovatel'skii Institut sinteticheskogo Kauchuka im. S. V. Lebedeva.

SU	094	IND	[✓ A]	B	C	D	E	[✓ F]	01	02	03	[✓ 04]	05	11	12	13	14	15	21	22	23	24	25	31	32	33	[✓ 34]	[✓ 35]	L	M	[✓ S]	1	2	[✓ 3]	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Central Scientific Research Institute of Ferrous Metallurgy im. I. P. Bardina (see below)

ACRONYM: TsNII ChM

See also 197; 077; 101; 102; 106-7; 125

ADDRESS:

Moscow
Tekhnicheskii pereulok, 12

Tel.:

AFFIL:

Gosplan, USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Oxygen Injection in blast furnaces and steel furnaces.

Comments:

Russian Name: Tsentral'nii nauchno-issledovatel'ski institut Chernoi Metallurgii im. I. P. Bardina

Publications: Works (Trudy)

SU	095	IND	[✓ A] B C D E F	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 [✓ 32] 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Scientific Research Storage Battery Institute

Vse-soiuznyi Nauchno-Issledovatel'skii akkumulyatornyy Institut

See also 081-4; 090; 096; 110; 178-9; 189 196; 105; 121;

ADDRESS:

Leningrad

Tel.:

AFFIL:

Gosplan, USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Automobile and Tractor Batteries

Comments:

Institute has branch in Podol'sk

SU	096	IND	[✓ A] B C D E [✓ F]	[✓ 01] [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Laboratory of Motors

Laboratoriia dvigateley

See also 081-4; 090; 095; 110; 118-9; 196 178-9; 189; 105; 121;

ADDRESS:

Moscow
Krasnoproletarskaia Ulitsa, 32

Tel.:

AFFIL:

Academy of Sciences of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Gas Turbines and Internal Combustion Engines; Fuels; Combustion

Comments:

Publications: Works
Trudy

SU	097	IND	[✓ A] B C D E [✓ F]	01 [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S	T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Power Engineering Institute im. G. M. Krzhizhanovskii

Energeticheskii institut im. G.M. Krzhizhanovskogo

ACRONYM: ENIN

See also 172;183; 089;091;098 104-5; 109; 111

ADDRESS:

Moscow
Leninskii prospekt, 19

Tel.:

AFFIL:

Academy of Sciences of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Combustion; Fuel Utilization; Energetics

Comments:

Publications: Works (Trudy)
Sbornik Statei;
"Elekroenergetika" (A Journal)

SU	098	IND	[✓ A] B C D E [✓ F]	[✓ 01] [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	31 [✓ 32] 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Institute of Transportation and Power Engineering

Transportno-energeticheskii institut

023; 041;
099;

See also 172; 183; 089; 091; 097; 104-5; 109; 111

ADDRESS:

Novosibirsk

Tel.:

AFFIL:

Siberian Department of the
Academy of Sciences
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Combustion

Comments:

Publications: Work
(Trudy)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	099	IND	~~A~~ B C D E ~~F~~	~~01~~ 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	1969	S	T

NAME: Mining Institute

Institut Gornogo Dela

ACRONYM:

See also 023; 041; 098; 078

ADDRESS:

Novosibirsk

Tel.:

Title	PERSONNEL	Function
	S.S. Filatov	

AFFIL:

Siberian Department of the Academy of Sciences

AP aims and actions:

Research Area: Catalytic Afterburners

Comments:

Publication: Works of the Institute
Trudy Instituta
Gornogo Dela

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	100	IND	~~A~~ B C D E F	~~01~~ ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S	T

NAME: Kuybyshev Scientific Research Institute of the Petroleum Industry

Kuybyshevskii nauchno-issledovatel'skii institut neftyanoi pronsyshlennosti

ACRONYM:

See also ~~131; 146~~; 070-073; 114-117; 181

ADDRESS:

Kuybyshev

Tel.:

Title	PERSONNEL	Function

AFFIL:

All-Union Scientific Research Institute for Petroleum Gas

AP aims and actions:

Research Areas: Fuels and their utilization.

Comments:

SU	103	IND	~~A~~ B C D E ~~F~~	01 ~~02~~ 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ukrainian Scientific Research Coal Chemical Institute

Ukrainskii nauchno-issledovatel'skii uglekhimicheskii institut

ACRONYM: UKhIN

See also 125; 143
074; 112; 124; 173

ADDRESS:

Khar'khov
Ulitsa Vesina, 7

Tel.:

AFFIL.:

Gosplan, Ukranian SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Coking of Coal

Comments:

Publications: Works
Trudy

SU	104	IND	~~A~~ B C D E ~~F~~	01 ~~02~~ ~~03~~ ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ 35	L M ~~N~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Institute of Power Engineering

Institut energetiki

027; 032; 050; 056; 169

See also 172; 183; 089; 091,
097-8; 105; 109; 111

ADDRESS:

Alma-Ata,
Ulitsa Uygurskaia, 85

Tel.:

AFFIL.:

Academy of Sciences of the
Kazakh SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Stokers; Industrial Furnaces; Combustion; Cyclone process for cement and chemical industries

Comments:

Publications: Works
Trudy

SU	101	IND	[✓ A] B C D E [✓ F]	01 02 03 [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 33 [✓ 34] [✓ 35]	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Institute of Metallurgy

Institut Metallurgii

019; 074; 078; 158

See also 197; 077; 094;102; 106-7;125

ADDRESS:

Sverdlovsk
Ulitsa Mamina - Sibiryaka

Tel.:

AFFIL: State Committee of the Council of Ministers of the RSFSR for coordination of Scientific Research

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Reduction of sulfide ores; Theory of blast furnaces; Use of oxygen in metallurgical furnaces.

Comments:

Publications: Works
Trudy

SU	102	IND	[✓ A] B C D E F	01 02 03 [✓ 04] 05	[✓ 11] 12 13 [✓ 14] 15	21 22 23 24 25	31 32 33 [✓ 34] 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Scientific Research Institute of Ferrous Metallurgy

Vse-soiuznyi Nauchno-Issledovatel'skii Institut Chernoi Metallurgii

ACRONYM: VNII Chermet

See also 197; 077; 094; 101; 106-7; 125

ADDRESS:

Tel.:

AFFIL: Gosplan, Ukranian SSR

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Has Laboratory of Safety Engineering for the ferrous-metallurgical industry.

SU	105	IND	[✓ A] B C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 [✓ 32] 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S	T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Institute of Power Engineering and Electrical Engineering
Institut energetiki i elektrotekhniki

051; 171

See also 196; 172; 183; 081-4; 090; 095-6; 110; 121; 109; 089; 091; 097-8; 104; 118-9; 111; 178-9; 189

ADDRESS:
Riga

Tel.:

AFFIL.:
Academy of Sciences of the
Latvian SSR

Title	PERSONNEL

AP aims and actions:

Research Areas: Diesel Engines.
Has problem laboratory in the Riga Diesel Plant

Comments:

Publications: Works
Trudy

SU	106	IND	[✓ A] B C D E [✓ F]	01 02 03 [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 33 [✓ 34] 35	L M [✓ S]	1 2 [✓ 3]	1969		S	T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Institute of Ferrous Metallurgy
Institut Chernoi Metallurgii

ACRONYM: ICh M

See also 015; 138; 188; 197; 077; 094; 101-102; 107; 125

ADDRESS:
Dnepropetrovsk
Ulitsa Pisarzhevskogo, 5

Tel.:

AFFIL.:
Academy of Sciences at the
Ukranian SSR

Title	PERSONNEL

AP aims and actions:

Research Areas: Blast furnaces; open-hearth furnaces;
Foundry production.

Comments:

Publications: Works
Trudy

SU	107	IND	~~A~~ B C D E F	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Institute of Foundry Production

Institut liteynogo proizvodstva

197; 077; 094; 101-102;

See also 106; 125

ADDRESS:

Kiev
Ulitsa Vydubetskaia, 47

Tel.:

AFFIL.:

Academy of Sciences of the
Ukranian SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Cupolas

Comments:

SU	108	IND	~~A~~ B C D E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Institute of Gas Utilization

Institut ispol'zovaniya gaza

See also 073; 113; 124

ADDRESS:

Kiev
Ulitsa Mel'nika, 44

Tel.:

AFFIL.:

Academy of Sciences of the
Ukranian SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Gas burners and furnaces.

Comments:

SU	109	IND	~~A~~ B C D E F	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Institute of Thermal Power Engineering

Institut teploenergetiki

172; 183; 089; 091;
See also 097; 104-5; 098
111

ADDRESS:

Kiev
Ulitsa ChKalova, 55-b

Tel.:

AFFIL.:

Academy of Sciences of
the Ukranian SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Fuel utilization in
Power Plants

Comments:

SU	110	IND	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Auto Transport Research Institute
Vse-Soiuznyi Nauchno-Issledovatel'skii Institut Automobil'nogo
Transporta

ACRONYM: NIIAT

See also 178-9; 189; 105; 121
081-4; 090; 095-6;
118-9; 196

ADDRESS:

Moscow
Pekabr'skaiia ulitsa, 23

Tel.:

AFFIL.:

Title	PERSONNEL	

AP aims and actions:

Research Areas: Fuels

Institute has branches in Kiev and Leningrad.

Comments:

May also be known without the
prefix "All-Union"
(Vse-Soiuznyi)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	111	IND	[✓ A] B C D E [✓ F]	[✓ 01] [✓ 02] 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] [✓ 32] [✓ 33] [✓ 34] 35	[✓ L] M S	[✓ 1] 2 3	1969		S T

NAME: The All-Union F. YeDzerzhinsky Thermal Engineering Institute

Vse-Soiuznyi Teplo-Teknicheski Nauchno-Issledovatel'skii Institut im. F. YeDzerzhinskogo

ACRONYM: VTI

See also 172; 183; 089; 091; 097; 104-5; 109

ADDRESS:

Moscow (WL)
Leninskaia Sloboda, 23 (WL)

Tel.:

AFFIL:

Title	PERSONNEL	Function
Engineer	Dergachov	Gas Cleaning Specialist

AP aims and actions:

Research Areas: Gas Cleaning Apparatus; After-burners; Fuels and Combustion.

Has branch in Chelyabinsk.

Comments:

One of the most important institutes doing research in heat and power engineering.

Publications: Works
(Trudy)
Izvestiia

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	112	IND	[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	[✓ 31] 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T

NAME: All-Union Scientific Research Coal Institute

Vse-soiuznyi Nauchno-Issledovatel'skii Ugol'nii Institut

ACRONYM: VUGI

See also 074; 103; 173; 124

ADDRESS:

Stantsiia Panki
Moskva-Ryazanskoy zheleznoy dorogi

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Trains workers for the coal industry.
Mining equipment and automation.

Comments:

Has branches in Vorkuta and Kizel'.
Publishes a Nauchnyye Raboty.

SU	113	IND	~~A~~ B C D E ~~F~~	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Scientific Research Institute of Fuel Utilization
Vse-soiuznyi Nauchno-Issledovatel'skii Institut Toplivoispol'zovaniya

ACRONYM: VNIIT

See also 108; 073; 124

ADDRESS:

Tel.:

AFFIL.:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Gas Burners and Temperature Measurement for Steel-making furnaces.

Comments:

Publication: Works
Trudy

SU	114	IND	~~A~~ B C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 34 35	L M S	~~1~~ 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Scientific Research Institute of Petrochemical Processes (see below)

ACRONYM: VNIINeftekhim

See also 070-073; 115-117; 181

ADDRESS:

Leningrad
Zhelesnodorozhnyy proyezd, 40

Tel.:

AFFIL.:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Fuel Additives, Catalytic Cracking

Comments:

Publication: Works
Trudy

Russian Name: Vse-soiuznyi Nauchno-Issledovatel'skii Institut Neftekhimicheskikh Protsessov

SU	115	IND	[✓ A] B C D E [✓ F]	01 02 [✓ 03] 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	[✓ 31] [✓ 32] 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Scientific Research Institute of the Petroleum Industry (see below)

ACRONYM: VNIINP

See also 070-073; 114-117; 181

ADDRESS:

Moscow
Aviamotornaya ulitsa, 6

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Fuel Additives, Catalysis;
Analytic Methodology.

Institute has branch in Leningrad.

Comments:

Publications: Works
Trudy

Russian Name: Vse-soiuznyi Nauchno-Issledovatel'skii Institut Neftyanoy promyshlennosti.

SU	116		[✓ A] B C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: All-Union Scientific Research Institute for Petroleum Gas
Vse-soiuznyi Nauchno-Issledovatel'skii Neftegazovyy Institut

ACRONYM. VNII Neft

See also 070-073; 114-117; 181

ADDRESS:

Moscow
1-Y Dmitrovskii proyezd, 10

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Physical-chemical analysis of hydrocarbons.

Comments:

Publication: Works
Trudy

SU	117	IND	~~A~~ B C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: All-Union Scientific Research Institute of Shale Processing (see below)

ACRONYM:

See also 070-073; 114-117;181

ADDRESS:
Leningrad
Zaozernaya, 1

Tel:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Preparation and analysis of shale oil.

Comments:

Publication: Works
Trudy

Russian Name: Vse-soiuznyi Nauchno-Issledovatel'skii Institut po pererabotke slantsev.

SU	118	IND	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central Fuel Apparatus Research and Design Institute (see below)

178-9; 189; 105; 121;

See also 110; 119; 081-4; 090; 095-6; 196

ADDRESS:
Leningrad

Tel.:

AFFIL:

Title	PERSONNEL	Function
	N. N. Gitlin	

AP aims and actions:

Research Areas: Automobile Exhaust Gas Analysis.

Comments:

Russian Name: Tsentral'nyi Nauchno-Issledovatel'skii i Proektnyi Institut Toplivnoi Apparatury Avtotraktornykh i Stantsionarnykh Dvigatelei

SU	119	IND	~~A~~ B C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ ~~32~~ 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central Scientific Research Diesel Institute

Tsenral'nyy Nauchno-Issledovatel'skii dizel'nyy Institut

ACRONYM: TsNIDI

See also 178-9; 189; 196; 105;
121; 081-4; 090;
095-6; 110; 118

ADDRESS:

Leningrad
Paradnaya ulitsa, 8

Tel.:

AFFIL:

Title	PERSONNEL

AP aims and actions:

Research Areas: Fuels; Fuel Additives; Combustion; Engine Design

Comments:

SU	120	IND	~~A~~ B C D E F	01 02 03 ~~04~~ 05	11 12 13 ~~14~~ 15	21 ~~22~~ 23 24 25	31 32 ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Research Institute for Ventilation, Dust and Air Pollution Control at Metallurgical Plants

ACRONYM:

See also 063-069; 076

ADDRESS:

Krivoi Rog

Tel.:

AFFIL:

Title	PERSONNEL	Function
	A. G. Alekseev	
	V. I. Koval'	
	O. D. Neikov	

AP aims and actions:

Research Areas: Sedimentation of Aerosols

Comments:

SU	121	IND	~~A~~	B	C	D	E	F	~~01~~	02	03	04	05	11	12	13	14	15	21	22	23	24	25	~~31~~	~~32~~	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T				
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date							

NAME: Scientific Research Institute of Automobile Transportation

Nauchno-Issledovatel'skii institut automobil'nogo Transporta

ACRONYM: NIIAT

See also 178-9; 189; 196;105; 081-4; 090; 095-6; 110; 118-9;

ADDRESS:

Moscow
DeKabr'skaia ulitsa, 23

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Automotive and diesel fuels and their combustion.

Comments:

Institute has branches in Kiev and Leningrad.

SU	122	IND	~~A~~	B	C	D	E	~~F~~	01	02	~~03~~	04	05	11	12	13	14	15	21	22	23	24	25	31	32	33	~~34~~	35	L	M	~~S~~	1	2	~~3~~	1969		S	T	
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date				

NAME: State All-Union Scientific Research Institute of the Cement Industry (see below)

ACRONYM: VNIITs

See also

ADDRESS:

Moscow
1-y D'Kovskii pereulok, 4

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Cement Production Technology.
Russian Name: Gosudarstveunii Use-soiuznii nauchno-issledovatel'skii institut tsementoi promyshlennosti.

Publications: Works (Trudy) Information Reports (Informatsionniie Soobshrheniia)
Scientific Reports (Nauchniie Soobshcheniia)
Index of Periodical Articles on Cement (Ukazatel' Zhurnal'nikh Statey po Tsementy)

Comments:

SU	123	IND	~~A~~ B C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 ~~35~~	L M ~~S~~	1 2 ~~3~~	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Central Scientific Research Institute of Wood-Pulp Chemistry

Tsentral'nii nauchno-issledovatel'skii leso Khimicheskii Institut

ACRONYM: Ts NILKhI

See also 051; 061; 175

ADDRESS:

Khimki
Leningradskoye shosse, 28

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Wood-pulp chemistry.

Comments:

Publications: Sbornik Trudov

SU	124	IND	~~A~~ B C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	~~31~~ 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: State Scientific Research and Planning Institute of the Coal, Ore, Oil and Gas Industries (see below)

ACRONYM: UKr NII Proyekt

See also 173; 103; 112; 074; 108; 113

ADDRESS:

Kiev

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Petroleum products and their refining.

Comments:

Publications: Nauchniie Zapiski
Russian Name: Gosudarstvennii nauchno-issledovatel'skii i proyektnii institut ugol'noi, rudnov, neftianoi, i gazovoi promyshlennosti

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	125	IND	~~A~~ B C D E ~~F~~	01 02 03 ~~04~~ 05	11 12 13 14 15	21 22 23 24 25	31 32 33 ~~34~~ 35	L M ~~S~~	1 2 ~~3~~	1969	S	T

NAME: State Scientific Research and Planning Institute of the Metallurgical Industry (see below)

ACRONYM: Giprostal'

See also 103; 143 197; 077; 094; 101-2; 106-7

ADDRESS:

Khar'khov
Gosprom

Tel.:

AFFIL:

Title	PERSONNEL

AP aims and actions:

Research Areas: Design and operation of open-hearth and other types of furnaces.
Institute has subordinate organization called "Proyekstal'"
Institute has branch in Zhdanov.

Russian Name: Gosudarstvennii nauchno-issledovatel'skii i proyektnii institut metallurgicheskoi promyshlennosti.

Comments:

Publications: Sbornik Nauchyikh Trudov

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	126	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S [✓ T]

NAME: Central Institute for Advanced Medical Studies

Tsentral'nyi Institut Usovershenstvovaniia Vrachei

007; 042; 045-6;

See also 126-71

ADDRESS:

Moscow
Ploshchad Vosstania, ½

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
Dr.	K.A. Bushtueva	Chair of Municipal Hygiene
	E.A. Ved'mina	Chair of Microbiology
Dr.	S.N. Kimina	Dotsent, Municipal Hygiene
Mrs.	M.D. Manita	Sr. Research Assoc. "
	V.P. Melekhina	" " " "
Dotsent	V.A. Chizhikov	Dept. of Community "
	M.E. Eglite	
	T.B. Nikondrova	

AP aims and actions:

Research Areas: Development of Air Quality Criteria; Measurement methods e.g. isopropylbenzene and ozone.

Houses the State Scientific Medical Library

Comments:

Additional Personnel:
Dotsent Murev'eva, Chair of Municipal Hygiene
(Serves as Secretary, All-Union Society of Hygienists)
Prof. K. G. Beriusev

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	127	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S T

NAME: First Leningrad I.P. Pavlov Medical Institute

Gosudarstvennyi Meditsinskii Institut im. I.P. Pavlova

ACRONYM:

See also 126-71

ADDRESS:

Leningrad
Ulitsa L. Tolstogo, 6/8

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
		Chair of Communal Hygiene

AP aims and actions:

Comments:

SU	128	ACD	~~A~~	~~B~~	C	D	E	F	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Azerbaidzhan Institute for Advanced Medical Studies

Institut Usovershenstvovaniia Vrachei Azerbaidzhana

ACRONYM:

See also 048; 126-71

ADDRESS:

Tel.:

AFFIL:

Ministry of Public Health of the USSR (002)

Title	PERSONNEL	Function
	D.A. Akhmedov	

AP aims and actions:

Research Areas: Hygiene Assessment of Pollution of Populated Areas.

Comments:

Publication: Scientific Notes on the subject of Hygiene and Sanitation-Uchenye Zapiski, Posviashchennye Voprosam Gigeny i Sanitarii

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SU	129	ACD	~~A~~	~~B~~	C	D	E	F	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Medical Institute for Environmental Hygiene

ACRONYM:

See also 126-71

ADDRESS:

Leningrad, P-101,
Ulitsa Mira, 14

Tel.:

AFFIL:

Ministry of Public Health of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	130	ACD	~~A~~	~~B~~	C	D	E	F	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Belorussian Medical Research Institute of Environmental Hygiene (see below)

ACRONYM:

See also 149; 126-71

ADDRESS:

Minsk
Ulitsa Nogina, 3

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Russian Name: Belorusskii Meditsinskii Nauchno-Issledovatel'skii Institut Gigieny Yneshnei Sredy

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SU	131	ACD	~~A~~	~~B~~	C	D	E	F	01	02	03	04	05	~~11~~	12	13	14	15	21	22	23	24	25	31	32	33	34	35	L	M	~~S~~	1	2	~~3~~	1969		S	T
Country	No.	Type	Functions						Sources					Effects					Controls					Remedies					Size			Status			Date			

NAME: Medical Research Institute of Epidemiology and Hygiene

Meditsinskii Nauchno-Issledovatel'skii Institut Epidemiologii i Gigieny

100; 146

See also 024-30; 047-8; 126-71

ADDRESS:

Kuibyshev
Chapayevskaya, 87

Tel.:

AFFIL:

Ministry of Public Health
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	132	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Medical Research Institute of Epidemiology, Microbiology and Hygiene (see below)

164; 047-8; 024-30; 126-71

See also

ADDRESS:

Tallin

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	M.R. Vellama	

AP aims and actions:

Research Areas: Air Pollution survey of Tallin

Comments:

Russian Name: Meditsinskii Nauchno-Issledovatel'skii Institut Epidemiologii, Mikrobiologii i Gigieny

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SU	133	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Medical Epidemiological, Microbiological and Parisitological Research Institute (see below)

ACRONYM:

See also 024-30; 047-8
126-71

ADDRESS:

Kiev
Ulitsa S. Razina, 4

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Russian Name: Meditsinskii Nauchno-Issledovatel'skii Institut Epidemiologii, Mikrobiologii i Parisitologii

SU	134	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Aktiubinsk State Medical Institute

Aktiubinsk Gosudavstuennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Aktiubinsk
Ulitsa Lenina, 78

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	Sh.O. Dairova	
	V.I. Jurchenko	
	Z.G. Mezentseva	
	T.N. Smokotina	
	L.N. Zhelbakov	

AP aims and actions:

Research Areas: Pollution by chromium and lead from industrial sources.

Comments:

Publication: Collected Scientific Works - Sbornik Nauchny Trudov

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SU	135	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Astrakhan State Medical Institute

Astrakhan Gosudarstuennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Astrakhan
Ulitsa Mekhnikova, 20

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	[illegible]ONNEL	Function
	S.I. Kulikov	

AP aims and actions:

Research Areas: Relationship of disease in children to air pollution.

Comments:

Publication: Works
Trudy

SU	136	ACD	[✓ A] [✓ B] C D E F	01 02 03 [✓ 04] 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Azerbaidzhan N. Narimanov State Medical Institute

Azerbaidzhan Gosudarstvennyi Meditsinskii Institut im. N. Narimanova

ACRONYM:

See also 048; 126-71

ADDRESS:

Baku,
Ulitsa Karganova, 13

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	A. K. Ismailov	

AP aims and actions:

Research Areas: Fluoride pollution from
Aluminum Reduction Plants.

Comments:

SU	137	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Bashkir* State Medical Institute

Bashkir Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 021; 126-71

ADDRESS:

Ufa,
Ulitsa Frunze, 47

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

* Add to English Name (15th
Anniversary of the Komsomol)

SU	138	ACD	/ / C D E /	01 02 03 04 05	/ 12 13 14 15	21 / 23 24 25	31 32 33 34 35	L M /	1 2 /	1969			S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date				

NAME: Dnepropetrovsk State Medical Institute

Dnepropetrovsk Gosudarstvennyi Meditsinskii Institut

015; 106; 188

See also 126-71

ADDRESS:

Dnepropetrovsk
Ulitsa Dzerzhinskogo, 9

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	A.P. Duplevskaia	
	G.S. Kalinichenko	
	M.Ya. Sheliug	
	I.I. Kryshanovskaia	

AP aims and actions:

Research Areas: Epidemiology of Air Pollution;
Monitoring of Air of Dnepropetrovsk

Comments:

Publications: Collected Scientific Works
Sbornik Nauchnykh Trudov

SU	139	ACD	/ / C D E /	01 02 03 04 05	12 13 14 15	/ 22 23 24 25	31 32 33 34 35	L M /	1 2 /	1969			S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date				

NAME: Donetsk A.M. Gorki State Medical Institute

Donetsk Gosudarstvennyi Meditsinskii Institut im. A.M. Gorkii

ACRONYM:

See also 014 126-71

ADDRESS:

Donetsk
Kalinovka' MaKayevskoe chaussee

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	O.A. Lastkov	
	G.B. Smolianski	

AP aims and actions:

Research Areas: Determination of Sanitary Clearance Zones around Industrial Sources

Comments:

Publication: Works
Trudy

SU	140	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Erevan State Medical Institute

Erevan Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Erevan
Ulitsa Korova, 2

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	G.V. Deroian	

AP aims and actions:

Research Areas: Effect of pollutants on immunobiological reactivity in children.

Comments:

SU	141	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Gorky State Medical Institute im. S.M. Kirov

Gorky Gosudarstvennyi Meditsinskii Institut im. S.M. Kirova

ACRONYM:

See also 126-71

ADDRESS:
Gorky
Ploshchad Minina i Pozharskogo,
10/1

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	I.I. Beliaev A.M. Mineev K.A. Prokhorova	

AP aims and actions:

Research Areas: Air Quality Management for Gorky

Comments:

Publications: Scientific Notes of the Institute

SU	142	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Irkutsk State Medical Institute

Irkutsk Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 026 126-71

ADDRESS:

Irkutsk
Ulitsa Krasnogo Vosstania, 1

Tel.:

AFFIL:

Ministry of Public Health of
the USSR (002)

Title	PERSONNEL	Function
Prof.	Ya. M. Grushko	Chair of General Hygiene
	E. G. Manzhenko	

AP aims and actions:

Research Areas: Effect of Meteorology on SO_2 in Irkutsk and on effect on health of the population.

Comments:

Publication: Collected Scientific Works

Sbornik Nauchnykh Trudov

SU	143	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kharkhov State Medical Institute

Kharkhov Gosudarstvennyi Meditsinskii Institut

103; 125

See also 126-71

ADDRESS:

Kharkhov
Prospekt Lenina, 4

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	144	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: *Kiev A.A. Bogomolets State Medical Institute (Order of Red Banner)

Kiev Gosudarstvennyi Meditsinskii Institut im. A.A. Bogomo'tsa

ACRONYM:

See also 126-71

ADDRESS:

Kiev
Bd. Shevchenko, 13

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
		Chair of Communal Hygiene

AP aims and actions:

Comments:

* add to Russian Name "Ordena Trudovogo Krasnogo Znameni"

SU	145	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kishnev State Medical Institute

Kishinev Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 028 126-71

ADDRESS:

Kishinev
Prospekt Lenina, 165

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	146	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kuibyshev State Medical Institute

Kuibyshev Gosudar stvennyi Meditsinskii Institut

ACRONYM:

See also 100; 131 126-71

ADDRESS:

Kuibyshev
Ulitsa Chapaevskaya, 89

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	147	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kursk State Medical Institute

Kursk Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Kursk
Ulitsa Karl Marxa, 3

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	V.Y. Malysheva	

AP aims and actions:

Research Area: Monitoring particulate matter in urban air.

Comments:

SU	148	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: L'vov State Medical Institute
L'vov Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

L'vov
Ulitsa Pekarskaya, 69

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	149	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Minsk State Medical Institute
Minsk Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 130 126-71

ADDRESS:

Minsk,
Prospekt Lenina, 6

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	150	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 ~~03~~ 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Omsk M.I. Kalanin State Medical Institute

Omsk Gosudarstvennyi Meditsinskii Institut im. M.I. Kalanina

ACRONYM:

See also 126-71

ADDRESS:

Omsk
Ulitsa Lenina, 9

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	E.E. Aksel'rod	
	A.A. Dobrinski	
	N.D. Pantaleev	
	N.A. Pogorel'tsev	
	R.A. Posokhin	
	M.S. Shiller	

AP aims and actions:

Research Areas: Air Quality in Omsk; Effect of air pollution on health of population of Omsk; Emissions from Oil Refineries and fertilizer plants; Toxicity of cyclohanone and cyclohexanol.

Comments:

Publication: Works
Trudy

SU	151	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 ~~03~~ 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Orenburg State Medical Institute

Orenburg Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Orenburg,
Sovietskaya Ulitsa, 6

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	L.A. Baranovskaia	
	A.A. Shmakov	

AP aims and actions:

Research Areas: Air pollution from copper sulfate manufacture.

Comments:

Publications: Works
Trudy

SU	152	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Perm State Medical Institute

Perm Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Perm:
Kommanisticheskaya Ulitsa, 26

Tel.:

AFFIL: Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
Prof.	M.L. Krasavitskaia	Chair of General Hygiene
	E.V. Rykhter	

AP aims and actions:

Research Areas: Air Quality Criteria for ethylene and Trichlorethylene: Comparison of absorbents and adsorbents in air sampling; Air Quality Measurement in the western Urals.

Comments:

Publications: Works
Trudy

SU	153	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S	T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Riazan' I. P. Pavlov State Medical Institute

Riazan Gosudarstvennyi Meditsinskii Institut im. I.P. Pavlova

ACRONYM:

See also 126-71

ADDRESS:

Riazan'
Ulitsa Mayakovskogo, 63

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
		Chair of General Hygiene

AP aims and actions:

Comments:

SU	154	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Rostov State Medical Institute

Rostov Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 029 126-71

ADDRESS:

Rostov-on-the-Don,
Nakhichevansky prospekt, 29a

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	155	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 ~~03~~ 04 05	~~11~~ 12 13 14 15	21 ~~22~~ 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Samarkand State Medical Institute im. I.P. Pavlov

Samarkand Gosudarstvennyi Meditsinskii Institut im. I.P. Pavlova

ACRONYM:

See also 126-71

ADDRESS:

Samarkand
Ulitsa Kommunisticheskaya, 35

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	L.V. Makeeva L.M. Obukhova L.F. Shashkina	

AP aims and actions:

Research Areas: Effect of effluents from superphosphate production on health; Measurement and analysis of sootfall in Samarkand.

Comments:

Publication: Scientific Works
Nauchnye Trudy

SU	156	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Stavropol State Medical Institute

Stavropol Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Stavropol - Kavkazsky
Ulitsa Mira, 310

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	A.M. Petrov	Dept. of Hygiene

AP aims and actions:

Research Areas: Automatic dosimetry for continuous gas supply in experimental investigations.

Comments:

SU	157	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	[✓ 21] 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Saratov State Medical Institute

Saratov Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Saratov
Ulitsa 20 - letya VLKSM, 112

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
Prof.	Los D.M. Kosmodomianskaia	Chairman of General Hygiene

AP aims and actions:

Research Areas: Relation of Air Pollution to Health; Sanitary Protection Zones.

Comments:

SU	158	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Sverdlovsk State Medical Institute

Sverdlovsk Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 019; 074; 078; 101;

126-71

ADDRESS:

Sverdlovsk
Ulitsa Repina, 3

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	L.P. Tarkhov	

AP aims and actions:

Research Areas: Air Quality criteria for Chlorbenzol.

Comments:

SU	159	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 [✓ 33] 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Tashkent State Medical Institute

Tashkent Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 020; 022; 055

126-71

ADDRESS:

Tashkent
Ulitsa Karl Marxa, 103

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	M. Karimov	

AP aims and actions:

Research Areas: Evaluation of filters for air sampling; Luminescence Analysis of pollutants.

Comments:

Publications: Collected Scientific Works
Sbornik Nauchnykh Trudov

SU	160	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Tbilisi State Medical Institute

Tbilisi Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 046; 049; 053;
126-71

ADDRESS:
Tbilisi, 9,
Ulitsa Melikishvili, 10

Tel.:

AFFIL:
Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Publications: Works
Trudy

SU	161	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Ternapol State Medical Institute

Ternapol Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:
Ternapol
Teatralnaya Ploshchad, 2

Tel.:

AFFIL:
Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	162	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Volgograd State Medical Institute

Volgograd Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 044; 186 126-71

ADDRESS:

Volgograd
Ploshchad Pavshikh Bortsev, 1

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function
	N.V. Volobueva	

AP aims and actions:

Research Areas: Air Quality Monitoring in Volgograd

Comments:

Publications: Works
Trudy

SU	163	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	[✓ 11] 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Voronezh State Medical Institute

Voronezh Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Voronezh
Studentcheskaya Ulitsa, 10

Tel.:

AFFIL:

Ministry of Public Health
of the USSR (002)

Title	PERSONNEL	Function

AP aims and actions:

Comments:

SU	164	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Estonian Institute of Experimental and Clinical Medicine

ACRONYM:

See also 132 003-010;126-71

ADDRESS:

Tallin

Tel.:

AFFIL:

Academy of Medical Sciences
of the USSR (003)

Title	PERSONNEL	Function
	G.S. Feoktistov	

AP aims and actions:

Research Areas: Respiratory Dust Retention

Comments:

SU	165	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969		~~S~~ ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: First Moscow Medical Institute (Sechenov) (Order of Lenin)
Pervyi Moskovskii ordena Lenina Meditsinskii Institut im. Sechenova

ACRONYM:

See also 042-4; 126-71

ADDRESS:

Moscow
Bolshara Pirogovskaia, 216

Tel.:

AFFIL:

Ministry of Public Health of
the RSFSR

Title	PERSONNEL	Function
	S.N. Cherkinskii	Chair of Municipal Hygiene
	T.S. Minnibaev	
	Mazaev	Docent, Municipal Hygiene (Gives lectures at Kuibyshev Construction Engineering Institute)

AP aims and actions:

Research Areas: Effect of SKD on Health; Effect of ozone on aromatic hydrocarbons.

Comments:

Publications: Scientific Works of Aspirants and Interns. Nauchnye Trudy Aspirantov i ordinatorov.

SU 165

Teaching Institute with faculties and chairs in all medical fields; includes Sanitary-epidemiological Faculty to train sanitary physicians.

Organization of Sanitary-Epidemiological Faculty:

- General Hygiene
- Labor Hygiene
- Food Hygiene
- Social Hygiene
- Child Hygiene
- Municipal Hygiene
  - Includes Air Pollution & Water Pollution

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	166	ACD	~~A~~ ~~B~~ C D E F	01 02 03 04 05	~~11~~ 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S /

NAME: Second Moscow Medical Institute

ACRONYM:

See also 042-4; 126-71

ADDRESS:

Moscow
M. Pirogovskaia, 1

Tel.:

AFFIL:

Ministry of Public Health
of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Teaching Institute

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	167	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 ~~03~~ ~~04~~ 05	~~11~~ 12 13 14 15	21 22 ~~23~~ 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S /

NAME: Leningrad Sanitary-Hygiene Medical Institute

Leningradskii Sanitarno-Gigienicheskii Meditsinskii Institut

ACRONYM:

See also 042-4; 126-71

ADDRESS:

Leningrad
Ulitsa Kurakina, 1/3

Tel.:

AFFIL:

Ministry of Public Health
of the RSFSR

Title	PERSONNEL	Function
	Tszon-Tsiuan Van	
	P.P. Dikun	
	T. Frich	
	A.M. Iusupov	
	K.K. Kiiamov	
	S. Kupcha	
	I. Lengel	
	T.K. Masol'nikova	

AP aims and actions: Research Areas: Air Pollution from Textile Factories; Effect of pollution from paper and pulp manufacture on health; Effect of pollution on school children; Effect of cement dust on health of the population; Effect of effluents from aluminun reduction plants on health; Aerosols and carcinogens in urban air; carcinogens from automobile exhaust.

Comments: Additional Personnel:
M.A. Pinigin
H. Shtraus
N.V. Volkova
M.A. Zabezhinskii

Publications:
Works of the Institute
Trudy Leningradskogo Sanitarno-Gigienicheskogo Meditsinskogo Instituta

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	168	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S	T

NAME: Kazakhstan Institute of Advanced Medical Studies

Institut Usovershenstvovaniia Vrachei Kazakhstana

ACRONYM:

See also 033
126-71

ADDRESS: -

Tel.:

AFFIL:

Ministry of Public Health
of the Kazakh SSR

Title	PERSONNEL	Function
	B.A. Nemenko	

AP aims and actions:

Research Areas: Concentration of 3.4 Benzpyrene in the air of Gur'ev and Alma-Ata

Comments:

Publications: Annual Report of Scientific Works
Ezhegodnik Nauchnykh Rabot

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	169	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 [✓ 04] 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S	T

NAME: Kazakhstan State Medical Institute

Kazakhstan Gosudarstvennyi Meditsinskii Institut

027;032;050;056;104

See also 126-71

ADDRESS:
Alma-Ata
Komsomolskaya Ulitsa, 96

Tel.:

AFFIL:

Ministry of Public Health
of the Kazakh SSR

Title	PERSONNEL	Function
	V.I. Jurchenko	
	V.M. Moroz	
	T.N. Smokotina	
	O.M. Shabanova	

AP aims and actions:

Research Areas: Use of snow to sample dustfall; Effluents from lead and chromium plants and their effects on experimental animals and people.

Comments:

Publications: Works
Trudy

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	170	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 [✓ 04] 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 [✓ 33] 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T

NAME: Kirghiz State Medical Institute

Kirghiz Gosudarstvennyi Meditsinskii Institut

ACRONYM:

See also 126-71

ADDRESS:

Frunze
Togolok Moldo

Tel.:

AFFIL:

Ministry of Public Health
of the Kirghiz SSR

Title	PERSONNEL	Function
	V.A. Bogdanov	
	R.G. Grishchenko	
	S.I. Imanbaev	
	T.N. Kleandrov	

AP aims and actions:

Research Areas: Air Pollution Control in Frunze; Hygienic evaluation of gas-cleaning methods for mercury production plants.

Comments:

Publications: Collected Scientific Works
Sbornik Nauchnykh Trudov

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	
SU	171	ACD	[✓ A] [✓ B] C D E F	01 [✓ 02] [✓ 03] 04 05	[✓ 11] 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969	S T

NAME: Riga State Medical Institute

Riga Gosudarstvennyi Meditsinskii Institue

ACRONYM:

See also 051; 105 126-71

ADDRESS:

Riga
Bulvar Padomyu, 12

Tel.:

AFFIL:

Ministry of Public Health
of the Latvian SSR

Title	PERSONNEL	Function
Prof.	Limberg	Chair of General Hygiene
	A.K. Audeke	
	M.D. Garbarenitso	
	Z. Ya. Lindberg	

AP aims and actions:

Research Areas: Fluorine in Atmosphere from cement-slate plant; Effect of fluoride from super phosphate plant on health of children; Air Quality in Riga; Pollution from steam power plant.

Comments:

SU	172	ACD	/ / C D E F	01 / 03 04 05	11 12 13 14 15	21 22 23 24 25	31 / 33 / 35	L M /	1 2 /	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Ivanovo Power Engineering Institute im. V.I. Lenin

Ivanovskii energeticheskii institut im. V.I. Lenina

ACRONYM:

See also 183;089;091;097-8; 104-5;109;111

ADDRESS:

Ivanova
Rabfakovskaia Ulitsa, 34

Tel.:

AFFIL.:

Ministry of Higher and
Secondary Special Education
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Thermal Power Stations;
Fuel burning Technology.

Comments:

SU	173	ACD	/ / C D E /	01 / 03 04 05	11 12 13 14 15	21 22 23 24 25	/ 32 33 34 35	L M /	1 2 /	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Kalinin Peat Institute

Kalininskii torfyanoi institut

ACRONYM:

See also 074;103;112;124

ADDRESS:

Kalinin
prospekt Lenina, 25

Tel.:

AFFIL.:

Ministry of Higher and Secondary
Special Education of the
RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Technology of burning peat.

Comments:

Publications: Works
Trudy

SU	174	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 [✓ 24] 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Leningrad Hydro-Meteorological Institute

Leningradskii Gidro-Meteorologicheskii Institut

ACRONYM:

See also 192; 035-9;052-8

ADDRESS:

Leningrad
Malo-okhtenskii Prospekt, 98
(WL)

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function
		Chairman of Physics of the Atmosphere

AP aims and actions:

Teaching Institute

Comments:

SU	175	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 [✓ 03] 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Leningrad Order of Lenin Forestry Academy im. S.M. Kirov

(see below)

ACRONYM:

See also 051; 061; 123

ADDRESS:

Leningrad,
Institutskii pereulok, 5

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Chemistry of the pulping process.

Russian Name: Leningradskaia ordena Lenina Lesotekhnicheskaia academiia im. S. M. Kirova

Comments:

Publications: Works (Trudy) Tekhnicheskaia Informatsiia po Itogam Nauchno-Issledovatel'skikh Rabot.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	176	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ ~~12~~ 13 14 ~~15~~	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969		S ~~T~~

NAME: Leningrad Order of Lenin State University im. A.A.Zhdanov

Leningradskii ordena Lenina gosudarstvennii universitet im. A.A. / Zhdanova

ACRONYM: LGU

See also 177;180;185;190-1;193

ADDRESS:

Leningrad
Universitetskaiia naberezhnaia, 7/9

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Second Largest University in the USSR
Broad Scale Research

Comments:
Publications: "Ucheniie Zapiski Leningradskogo Gosudarstvennogo Universiteta" (a series).
"Vestnik Leningradskogo Universteta" (a series)

University operates a publishing house.

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	177	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ ~~34~~ ~~35~~	~~L~~ M S	~~1~~ 2 3	1969		S ~~T~~

NAME: Leningrad Polytechnic Institute im. M.I. Kalinin

Leningradskii politekhnicheskii institut im. M.I. Kalinina

ACRONYM: LPI

See also 176;180;185;190-1;193

ADDRESS:

Leningrad
Dorogav Sosnovku, 1/3

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

One of the largest technical schools in the USSR.
Broad-scale Research.

Comments:

Publications: Works
Trudy

SU	178	ACD	~~A~~ ~~B~~ C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Moscow Auto mechanical Institute

Moskovskii automekhanicheskii institut

105;110;118-9;196;121;

See also 179;189;081-4;090;
095-6

ADDRESS:

Moscow
Bol'shaia Semonovskaia
Ulitsa, 38

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Fuel Injection; carburation; combustion.

Comments:

Publication: Works
Trudy

SU	179	ACD	~~A~~ ~~B~~ C D E F	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Moscow Automotive Transportation Institute

Moskovskii automobil'no-dorozhnii institut

105; 110; 118-9; 196;

See also 121; 178; 189; 081-4; 090; 095-6

ADDRESS:

Moscow
Leningradskii prospekt, 64

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Combustion in light fuel engines.

Comments:

SU	180	ACD	~~A~~ ~~B~~ C D E ~~F~~	~~01~~ ~~02~~ 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 25	31 32 ~~33~~ ~~34~~ ~~35~~	~~L~~ M S	~~1~~ 2 3	1969		S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Moscow Higher Technical School im. N.E. Bauman

Moskovskoie vys sheye tekhnicheskoie uchilishche im. N.E. Baumana

ACRONYM MVTU

See also 176-7; 185; 190-1; 193

ADDRESS:

Moscow
2 ya Baumanskaia ulitsa, 5

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

One of the largest engineering schools in the USSR Main Divisions are: Mechanical Technology, Thermal and Hydraulic Machines, Instruments, Hoisting and Transport Machines, and General Machinery

Comments:

Publications: Works (Trudy) and a variety of books and pamphlets.

SU	181	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Moscow Order of Labor Red Banner Institute of the Petrochemical and Gas Industries im. Academicion I.M. Gubkin (see below)

ACRONYM MINKh; GP

See also 063-73; 100; 114-7

ADDRESS:

Moscow
Leninskii prospekt, 6

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Fuel Additives; Catalysis; Petroleum and Natural Gas Technology

Comments:

Publications: Works (Trudy)
Russian Name: Moskovskii ordena Trudovogo Krasnogo Znameni institut neftikhimicheskoi i gazovoii promyshlennosti im. academika I.M. Gubkina

SU	182	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ ~~34~~ ~~35~~	L M S	~~1~~ 2 3	1969		S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Order of Lenin Moscow Mendeleyev Inst. of Chemical Technology

Moskovskii* Khimiko-Tekhnologicheskii Institut im. Mendeleyeva

ACRONYM: MKhTI

See also 188; 075; 093

ADDRESS:

Moscow
Miusskaia Ploshchad, 9

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: CO_2 cleaning and organic solvents. An outstanding chemical engineering institute.

Comments:

Publications: Works (Trudy)

* add to Russian Name -
Ordena Lenina

SU	183	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 ~~02~~ 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ ~~33~~ 34 35	~~L~~ M S	~~1~~ 2 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Moscow Order of Lenin Power Engineering Institute

Moskovskii Ordena Lenina Engineering Institut

111; 172; 089; 091;

See also 097-8; 104-5; 109

ADDRESS:

Moscow
Krasnokazarmennaia Ulitsa, 14
also 17

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function
	B.S. Beloselski	Chair of Technology of Water and Fuel

AP aims and actions:

Research Areas: Reduction of SO_2 from burning high-sulfur fuel oil

Comments:

Publications: Works
Trudy

SU	184	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	~~11~~ 12 13 ~~14~~ 15	21 22 23 24 25	31 32 ~~33~~ ~~34~~ 35	~~L~~ M S	~~1~~ 2 3	1969	S ~~T~~
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Moscow* V.V. Kuibyshev Civil Engineering Institute
Moskovskii** Inzhenerno-Stroitel'nyi Institut im. V.V. Kuibysheva

ACRONYM: MISI
See also 186; 194; 022-3; 085; 059-60

ADDRESS:
Moscow
Shliuzovaia Nab 8
Tel:

AFFIL:
Ministry of Higher and Secondary Special Education of the RSFSR

PERSONNEL

Title	PERSONNEL	Function
Docent	Mazaev	(of First Moscow Medical Institute)
	I.A. Shishkin	
	L.B. Lunch	

AP aims and actions:

Courses on air hygiene.

Important Training Institute for Sanitary Engineers.

Comments: Publication: Works Trudy

* (add to English Name) - Order of Labor Red Banner)

** (add to Russian Name) - Ordena Tvudovogo Krasnogo Zameni

SU	185	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 ~~22~~ 23 24 ~~25~~	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Moscow State University im. M.V. Lomonosov
Moskovskii gosudarstvennii universitet im. M.V. Lomonosova

ACRONYM: MGU
See also 176-7; 180; 190-1; 193

ADDRESS:
Moscow
Leninskii gory
Tel.:

AFFIL:
Ministry of Higher and Secondary Special Education of the RSFSR

Title	PERSONNEL	Function

AP aims and actions:

Largest and Formost University in the USSR
Broad-scale Research

Comments:

Publications: Uchenyye Zapiski
Vestnik (ten series)

SU	186	ACD	[✓ A] [✓ B] C D E F	01 02 03 04 05	11 12 13 [✓ 14] 15	[✓ 21] 22 23 24 25	31 32 33 34 35	L M [✓ S]	1 2 [✓ 3]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Volgograd Institute of Municipal-Economics Engineers

Volgogradskii Institut Inzhenerov Gorodskogo Khozyaystva

044; 162

See also 184; 194; 085;

ADDRESS:

Volgograd
Akademicheskaia Ulitsa, 3

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function 022-3; 059-60

AP aims and actions:

Teaching in City Planning and Ventilation.

Comments:

SU	187	ACD	[✓ A] [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	[✓ L] M S	[✓ 1] 2 3	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Ulianov-Lenin Electroengineering Institute

Leningradskii Elektrotekhnicheskii Institut Imeni, V.I. Ulianova Lenina

ACRONYM: LETI

See also 049; 040

ADDRESS:

Leningrad
Ulitsa professova Popova, 5

Tel.:

AFFIL:

Ministry of Higher and Secondary
Special Education of the RSFSR

Title	PERSONNEL	Function
	Yu.L. Kaminskii O.B. Lur'e N.N. Pershin Yu.S. Vail	

AP aims and actions:

Research Areas: Measurement Methods for Atmospheric Aerosols

Comments:

Publication: Bulletin
Izvestiia

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	S	T
SU	188	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 ~~03~~ 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ 34 35	L M ~~S~~	1 2 ~~3~~	1969		

NAME: Dnepropetrovsk F. Ye. Dzerzhinsky Institute of Chemical Technology (see below)

ACRONYM: DKhTI

See also 106; 138; 015 182; 075;093

ADDRESS:

Dnepropetrovsk
Ulitsa Gagarina, 8 (WL)

Tel.: (also Vuzovskaia ulitsa, 2g)

AFFIL.:
Ministry of Higher and Secondary
Special Education of the Ukranian
SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: SO_2 removal from effluent gases.

Comments:

Russian Name: Dnepropetrovskii Khimiko-Tekhnologicheskii Institut im. F.Ye Dzerzhinskogo

Publications: Works (Trudy)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	S	T
SU	189	ACD	~~A~~ ~~B~~ C D E ~~F~~	~~01~~ 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 ~~32~~ 33 34 35	L M ~~S~~	1 2 ~~3~~	1969		

NAME: Kiev Automotive Transportation Institute
Kievskii Automobil'no-dorozhnii institut

See also 110;118-9;195;121;178-9; 081-4;090;095-6;105

ADDRESS:

Kiev
Ulitsa Suvorova, 1

Tel.:

AFFIL.:
Ministry of Higher and Secondary
Special Education of the Ukranian
SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Carburation and combustion of fuels.

Comments:

Publications: Works
Trudy

SU	190	ACD	[✓] [✓] C D E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] [✓ 34] [✓ 35]	[✓] M S	[✓] 2 3	1969	S [✓]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kiev Order of Lenin Polytechnic Institute

Kievskii ordena Lenina politekhnicheskii institut

ACRONYM: KPI

See also 176-7; 180; 185; 191; 193

ADDRESS:

Kiev
Brest-Litovskoie shosse, 39

Tel.:

AFFIL:

Ministry of Higher and Secondary Special Education at the Ukranian SSR

Title	PERSONNEL	Function

AP aims and actions:

Broad-scale Research

Comments:

Publications: "Izvestiia Kievskogo Politekhnicheskogo Instituta" "Sbornik Nauchnykh Trudov"

SU	191	ACD	[✓] [✓] C D E [✓]	01 02 03 04 05	[✓ 11] 12 [✓ 13] [✓ 14] [✓ 15]	21 22 23 24 25	31 32 33 34 35	[✓] M S	[✓] 2 3	1969	S [✓]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Kiev State University im. T. G. Shevchenko

Kievskii gosudarstvennii universitet im. T.G. Shevchenko

176-7; 180; 185

See also 190; 193

ADDRESS:

Kiev
Vladimirskaya Ulitsa, 60

Tel.:

AFFIL:

Ministry of Higher and
Secondary Special Education
of the Ukranian SSR

Title	PERSONNEL	Function

AP aims and actions:

Third largest University in the USSR.
Broad-scale Research.

Comments:

Publications: Vestnik (seven series

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	192	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 ~~24~~ 25	31 32 33 34 35	L M ~~N~~	1 2 ~~3~~	1969	S	T

NAME: Odessa Hydro-Meteorological Institute

Odesskii Gidro-Meteorologicheskii Institut

ACRONYM: OGMI

See also 193 174; 035-9; 052-8

ADDRESS:

Odessa
Ulitsa Kirova, 106 (WL)

Tel.:

AFFIL.:

Ministry of Higher and Secondary Special Education of the Ukrainian, SSR

Title	PERSONNEL	Function
		Chair of Physics of the atmosphere
	M.E. Poliak	Steam Boiler Dept.

AP aims and actions:

Research Areas: Discharge of moisture into the atmosphere from combustion in power plant boilers.

Comments:

Teaching Institute.

Publications: Works (Trudy)

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
SU	193	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 ~~33~~ ~~34~~ ~~35~~	L M ~~N~~	1 2 ~~3~~	1969	S	T

NAME: Odessa Polytechnic Institute

Odesskii Politekhnicheskii Institut

ACRONYM:

See also 192 176-7;180;185; 190-2

ADDRESS:

Odessa
Prospekt Shevchenko, 1 (WL)

Tel.: (also Novo-Arkadiyskaia dorogo, 1)

AFFIL.:

Ministry of Higher and Secondary Special Education of the Ukrainian SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Coagulation (Agglomeration) of particulate Matter by Ultra-sonic energy.

Comments:

Publications: Nauchnie Zapiski

SU	194	ACD	~~A~~ ~~B~~ C D E ~~F~~	01 02 03 04 05	11 12 13 ~~14~~ 15	~~21~~ 22 23 24 25	31 32 33 34 35	L M ~~S~~	1 2 ~~3~~	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Moscow Institute of Engineers of City Building

Moskovskii Institut inzhenerov gorodskogo stroitel'stva

184; 186; 022-3

See also 085; 059-60

ADDRESS:

Moscow

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Urban Planning
A teaching institution.

Comments:

Publications: Works
Trudy

SU	195	INF	A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	1969	S ~~T~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: All-Union Institute of Scientific and Technical Information

Vse-soiuznii institut nauchnoi i tekhnicheskoy informatsii

ACRONYM: VINITI

See also 196-200

ADDRESS:

Moscow
Baltiyskaia Ulitsa, 14

Tel.:

AFFIL:

State Committee for Science
and Technology

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Publishes: "Referatiunii Zhurnal"
(123 Editions)
"Itogi Nauki" (Findings of Science)
"Express Information (Ekspress-Informatsiia)

SU	196	INF	A [✓ B] C D E [✓ F]	[✓ 01] 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969		S	T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Scientific-Research Institute of Information for the Automotive Industry
Nauchno-Issledovatel'skii Institut Informatsii Automobil'noi Promyshlennosti

195;081-4;090;095-6;105

See also 110;116-7;119;121

ADDRESS:

Tel.:

AFFIL.:
Ministry of Automobile Industry
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Publication: Automobile Construction
Automobile Stroenie

SU	197	INF	A [✓ B] C D E [✓ F]	01 02 03 [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓]	1 2 [✓]	1969		S	T
Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date			

NAME: Central Research Institute of Information and Technological Economic Research in Ferrous Metallurgy (see below)

ACRONYM:

See also 077;094;101;102;106-7;125

ADDRESS:

Moscow

Tel.:

AFFIL.:
Ministry of Ferrous Metallurgy
of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Gas Cleaning

Comments:
Publication: Power for Iron and Steel Plants - Series 12
"Energetika Predpriiatii chernoi Metallurgii"

Russian Name: Tsentral'nyi Nauchno-Issledovatel'skii Institut Informatsii i Tekhnologo - Ekonomicheskikh Issledovanii Chernoi Metallurgii

SU	198	INF	A [✓ B] C D E [✓ F]	01 02 03 [✓ 04] 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central Scientific Research Institute of Information and Technological - Economic Research for Non-Ferrous Metallurgy

ACRONYM:

See also 079-80;088

ADDRESS:

Moscow

Tel.:

AFFIL:

Ministry of Non-Ferrous
Metallurgy of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Research Area: Gas Cleaning

Comments:

Publication: Collected Scientific Works
Sbornik Nauchnykh Trudor

Russian Name: Tsentral'nyi Nauchno-Issledovatel'skii Institut Informatsii i Tekhnologo Ekonomicheskikh Issledovanii Cvetnoi Metallurgii

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SU	199	INF	A [✓ B] C D E [✓ F]	01 02 03 04 05	11 12 13 14 15	21 [✓ 22] 23 24 25	31 32 33 34 35	L M [✓ N]	1 2 [✓ 3]	1969	S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: Central Research Institute for Information on Instrument Construction, Automation and Control Systems (see below)

ACRONYM:

See also 091;086;084;058

ADDRESS:

Moscow

Tel.:

AFFIL: Ministry of Instrument
Construction, Means of Automation,
and Control Systems of the USSR

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Publications: Catalogue of Equipment

Russian Name: Tsentral'nyi Institut Nauchno-Tekhnicheskoi Informatsii po Pribor ostroeniiu, & Sredstvam Automatizatsii i Sistemam Upravleniia

SU	200	INF	A [✓] C D E [✓]	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] 34 35	L M [✓]	1 2 [✓]	1969		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: Central Bureau of Scientific and Technical Information
(Ukraine SSR) (see below)

ACRONYM:

See also

ADDRESS:
Kiev

Tel.:

AFFIL:
Ministry of Chemical Industry
of the Ukraine SSR

Title	PERSONNEL	Function

AP aims and actions:

Research Areas: Gas Cleaning

Comments:

Russian Name: Tsentral'noe Biuro Nauchnoi i Tekhnicheskoi Informatsii

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a. All-Union Natural Gas Research Institute	073
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a. All-Union Research and Design Institute of the Aluminum, Magnesium and Electrode Industry	080
b. Central Research Institute of Information and Technological-Economic Research for Non-Ferrous Metallurgy	198
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12. Ministry of Oil Refining and Petrochemistry	
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	SU Number
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(3) Donetsk	014
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(6) Kharkhov	
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(9) Leningrad	017
(10) Sverdiovsk	019
(11) Tashkent	020
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(5) Effendi-Zade Occupational Health Research Institute	018
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(16) Semaski Research Institute of Social Hygiene and the Origin of Health Services	
(17) Tubercolosis Research Institute	
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B. Academies	
1. Academy of Construction and Architecture of the USSR	
a. Research Institute of Sanitary Engineering	085
2. Academy of Medical Sciences	003
a. All-Union Committee on the Scientific Bases of Labor	006
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c. Institute of Experimental and Clinical Oncology, Moscow	009
d. Institute of Hygiene of Children and Adolescents	
e. Institute of Nutrition	010

	SU Number
f. Labor Hygiene and Occupational Diseases Institute	008
g. Problem Commission on "The Scientific Bases of the Hygiene of Populated Areas"	004
h. Sysin Institute of General and Communal Hygiene	007
3. Academy of Sciences of the USSR	
a. Institute of Chemistry	050
b. Institute of Inorganic and Electrical Chemistry	049
c. Mining Institute	099
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2. All-Russian Society of Hygienists	
3. Scientific Society of the Instrument Construction Industry	
4. Mendeleev Chemical Society	
D. Main Hydro-Meteorological Administration	
1. Voejkov Main Geophysical Observatory	035
E. State Committee on Science and Technology	
1. Council on Air Pollution	001
F. State Committee for Chemistry	
1. Karpov Physical Chemical Research Institute	040

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INTERNATIONAL ORGANIZATIONS - X

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Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: COUNCIL OF EUROPE

Cttee. for the Conservation of Nature and Natural Resources

ACRONYM:

See also X.002

ADDRESS: Place Lenôtre,
F-67 STRASBOURG.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	R. E. Boote	Chairman (NERC - GB.031)
Mr.	K. F. Wentzel	liaison with Cttee of Expert (X.002).

AP aims and actions:

To promote international conventions to protect the environment - including pollution problems.

Promoted European Conservation Year 1970, and the associated European Conservation Conference.

Comments:

AP research is the responsibility of the Cttee of Experts (X.002).

X.001 Council of Europe, Conservation Cttee. 5.70

X [redacted]	002		A ~~B~~ ~~C~~ D E F	01 02 03 04 05	11 12 13 14 15	~~21~~ 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted] S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: COUNCIL OF EUROPE

Committee of Experts on AP

ACRONYM:

See also X.001

ADDRESS: Place Lenôtre,
F-67 STRASBOURG.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Prof.	A. Roussel	chairman

AP aims and actions:

Examines air pollution issues with a view to drafting recommendations to governments on standards, international problems, and national policies.

Comments:

X.002 Council of Europe, Cttee. of Experts 5.70

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X [redacted]	003		A ~~B~~ C D E F	01 ~~02~~ 03 04 05	11 12 13 14 ~~15~~	21 22 23 24 25	~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~	L ~~M~~ S	~~1~~ 2 3	5.70	[redacted]	S ~~7~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: ORGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT
Joint Group on AP from Fuel Combustion

ACRONYM: O E C D

See also

ADDRESS: Scientific Affairs Directorate
2 rue André Pascal,
F-75 PARIS 16.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	J. A. Haines	Secretary (OECD Secretar't)

AP aims and actions:

To investigate the effects of economic growth on energy demands and the effects on pollution;
To examine the options open to industry for the abatement of pollution;
To examine the implications of these methods and their economic consequences.

Comments:

Formed by the OECD Committee for Research Cooperation (CRC), the Energy Committee, and the Special Committee for Oil.

X.003 O E C D Joint Gp. on AP from Fuel Combustion 5.70

X [redacted]	004		~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted]	S ~~7~~
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: OECD COMMITTEE FOR RESEARCH COOPERATION
Air Management Research Group

ACRONYM: (OECD) AMRG

See also

ADDRESS: Scientific Affairs Directorate
2 rue André Pascal,
F-75 PARIS 16.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	E.A.S. Mahler	Chairman
Mr.	C. A. Cochrane	OECD Secretariat-contact

AP aims and actions:

To identify research needs for effective air pollution control and to promote cooperative research in these areas.

Comments:

X.004 O E C D , A M R G 5.70

X	[redacted]	005		~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 ~~14~~ 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	6.70	[redacted]	S ~~T~~
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: NORTH ATLANTIC TREATY ORGANISATION
Committee on the Challenges of Modern Society

ACRONYM: NATO

See also

ADDRESS: Scientific Affairs Division,
OTAN / NATO,
B - BRUSSELS 39.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	H. Arnth-Jensen	secretariat-contact

AP aims and actions:

Initiation of a pilot study on AP.

Comments:

Joint project of Germany, Turkey and USA.

X.005 NATO, Cttee on Challenges of Modern Society 6.70

X	[redacted]	006		~~A~~ ~~B~~ C D E F	01 02 03 04 05	11 12 13 ~~14~~ 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	6.70	[redacted]	S T
Country		No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		

NAME: UNITED NATIONS EDUCATIONAL, SCIENTIFIC & CULTURAL ORGANIS'N
Social Sciences Chapter

ACRONYM: UNESCO

See also X.007

ADDRESS: 7 Place de Fontenoy,
F-75 PARIS 7.

Tel.: 566.57.57

AFFIL: United Nations

Title	PERSONNEL	Function

AP aims and actions:

Promotion of a ten-year project: 'Man and His Environment - A Design for Living'.

Comments:

X.006 UNESCO, Social Sciences Chapter 6.70

X [redacted] 007 [✓ A] [✓ B] C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 6.70 [redacted] S [✓ T]

Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: UNITED NATIONS EDUCATIONAL, SCIENTIFIC & CULTURAL ORGANIS'N
Natural Sciences Chapter

ACRONYM: UNESCO

See also X.006

ADDRESS: 7 Place Fontenoy,
F-75 PARIS 7.

Tel.: 556.57.57

AFFIL: United Nations

Title	PERSONNEL	Function

AP aims and actions:

Promotion of a long-term inter-governmental and inter-disciplinary programme on the conservation and rational use of the biosphere on a scientific basis.

Comments:

X.007 UNESCO, Natural Sciences Chapter 6.70

X [redacted] 008 A [✓ B] C D E F 01 02 03 04 05 [✓ 11] 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S T

Country No Type Functions Sources Effects Controls Remedies Size Status Date

NAME: WORLD HEALTH ORGANISATION Expert Advisory Panel on AP

ACRONYM: W H O

See also

ADDRESS: Division of Environ'l Health,
Avenue Appia,
CH-1211 GENEVE.

Tel.: 34.60.61

AFFIL: United Nations

Title	PERSONNEL	Function
Dr.	H. Pavanello	secretary (chief of A&WP (Gp. of Division.

AP aims and actions:

Comments:

X.008 W H O Expert Advisory Panel on AP

X [redacted] 009 | | ~~A~~ ~~B~~ C D E F | 01 02 03 04 05 | 11 12 13 14 15 | 21 22 23 ~~24~~ ~~25~~ | 31 32 33 34 35 | L M S | 1 2 3 | 5.70 | [redacted] S T

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: WORLD METEOROLOGICAL ORGANISATION
Wkg. Gp. on Atmospheric Pollution and Atmospheric Chemistry

ACRONYM: W M O

See also

ADDRESS: 41 ave Giuseppe Motta,
CH-12.. GENEVE.

Tel.: 34.64.00

AFFIL: United Nations

Title	PERSONNEL	Function
Dr.	F. H. Schmidt	chairman
	W.M.O. Parakanov	WMO Secretariat
	H.W. Kronebach	" "

AP aims and actions:

To discuss meteorological problems associated with AP and to recommend programmes of research to members of WMO (eg. setting up a network of geophysical stations to determine trends in global pollution and to compile information on AP climatology).

Comments:

X.009 W M O, Wkg. Gp. on AP and Atmos. Chem. 5.70

X [redacted] 010 ACD ~~A~~ ~~B~~ C D E F | 01 02 03 04 05 | 11 12 13 14 15 | 21 22 23 ~~24~~ ~~26~~ | 31 32 33 34 35 | ~~L~~ M S | ~~1~~ 2 3 | 11.69 | [redacted] S ~~T~~

Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: INTERNATIONAL METEOROLOGICAL INSTITUTE

ACRONYM:

See also X.009

ADDRESS: Tulegatan 41,
S-113 53 STOCKHOLM.

Tel.: (08) 34.08.60

AFFIL: W M O (X.009).

Title	PERSONNEL	Function
Prof.	B. Bolin	director, & Dynamic Met.div.
Dr.	E. Eriksson	Atmos. Chem. division.
Dr.	G. Witt	Upper Air Physics division.
Dr.	B. Döös	Dynamic Meteorology division
	G. Walin	Hydrodynamics division.
Civ.Ing	L. Granath	assistant to Dr.Eriksson.
Kem.Ing	L. Lundgren	aircraft sampling.
Dr.	W. Bischof	CO_2 measurements.

AP aims and actions:

Coordination and collation of air and rainfall analyses throughout Europe for >10yr, in close cooperation with national met. insts. and WMO (who recommend continuation to assess background pollution levels).

Beginning compilation af air trajectories: plan sampling from light planes (cf. NILU,N.004) for pollutant transport studies. Several years measuring CO_2 from commercial planes (support from S. Nat. Sci. Res. Ccl. at S.Kr.15 000/yr -S.006).

Upper Air Phys. div. developing scattering techniques for relationship of AP to noctilucent clouds.

Comments:

Admin. by Stockholm Univ. but has own Board for programming. 15yrs.

Financed by S Naturvårdsverk (S.002) S.Kr.270 000/yr (+ Kr.80 000 for foreign scholars).

Publishes widely, esp. in 'Tellus' (Q'ly, ed. Prof. Bolin; S. Phys. Soc.).

X.010 International Meteorological Institute 11.69

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
X [redacted]	011		~~A~~ ~~B~~ ~~C~~ D E F	~~01~~ 02 03 04 05	11 12 13 14 15	~~21~~ 22 23 24 25	31 32 33 34 35	~~L~~ M S	~~1~~ 2 3	5.70	[redacted]	S ~~T~~

NAME: ECONOMIC COMMISSION FOR EUROPE, Inland Transport Cttee.
Working Party 29

ACRONYM: ECE

See also

ADDRESS: Palais des Nations,
CH-1211 GENEVE.

Tel.:

AFFIL: United Nations

Title	PERSONNEL	Function
Dr.	A. Osselet	chairman

AP aims and actions:

To investigate pollution control and problems of amelioration for road vehicles.
To promote information exchanges on these problems.

Comments:

Has prepared standards for the measurement and control of vehicle emissions as recommendations to member governments.

X.011 E C E , Working Party 29 5.70

Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
X [redacted]	012		A ~~B~~ C D E F	01 02 03 04 05	11 12 13 14 ~~15~~	21 22 23 24 25	31 32 33 ~~34~~ 35	~~L~~ M S	1 ~~2~~ 3	5.70	[redacted]	S ~~T~~

NAME: ECONOMIC COMMISSION FOR EUROPE, Steel Committee
Gp. of Experts on A & WP in the Iron and Steel Industry

ACRONYM: E C E

See also

ADDRESS: Palais des Nations,
CH-1211 GENEVE.

Tel.:

AFFIL: United Nations

Title	PERSONNEL	Function
Dr.	A. Napviejew	secretary (ECE Secretariat)

AP aims and actions:

To review methods of treatment of pollution problems in the iron and steel industry.

Comments:

Report in preparation.

X.012 E C E , Steel Committee 5.70

X [redacted]	013		A [✓ B] C D E F	01 02 03 04 05	11 12 13 [✓ 14] [✓ 15]	21 22 23 24 25	31 32 33 34 35	[✓ L] M S	1 [✓ 2] 3	5.70	[redacted] S [✓ T]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: ECONOMIC COMMISSION FOR EUROPE
Environment and Housing Division : Wkg Party on AP Problems

ACRONYM: E C E

See also

ADDRESS: Palais des Nations,
CH-1211 GENÈVE 10.

Tel.:

AFFIL: United Nations.

Title	PERSONNEL	Function
Mr.	A. Pichler-Stainern	Secretariat-contact.

AP aims and actions:

To review trends, developments and government policies, to investigate air pollution control and amelioration problems, and to promote information exchanges.

Comments:

X.013 E C E , Envt & Hsg Div., Wkg Party on AP Problems 5.70

X [redacted]	014		[✓ A] [✓ B] C D E F	[✓ 01] [✓ 02] 03 04 05	11 [✓ 12] 13 14 15	21 22 23 24 25	[✓ 31] 32 [✓ 33] 34 35	L [✓ M] S	1 [✓ 2] 3	5.70	[redacted] S [✓ T]
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME: EUROPEAN ECONOMIC COMMUNITY
Politique de la Recherch Scientifique et Technique

ACRONYM: EEC - PREST

See also

ADDRESS: 3 Boulevard de l'Empereur,
B BRUSSELS.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Mr.	Pierre Aigrain	chairman

AP aims and actions:

Recommends areas for cooperative research, including proposals for abatement of air pollution from sulphur compounds, biological indicators for pollutants, and emissions from motor vehicles and domestic appliances.

Comments:

X.014 E E C - Politique de la Rech. Sci. et Tech. 5.70

[redacted] | | | A B C D E F | 01 02 03 04 05 | 11 12 13 14 15 | 21 22 23 24 25 | 31 32 33 34 35 | L M S | 1 2 3 | | [redacted] S T
Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME:

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

X [redacted] 016 | | ~~A~~ ~~B~~ C D E F | ~~01~~ ~~02~~ ~~03~~ ~~04~~ ~~05~~ | ~~11~~ ~~12~~ ~~13~~ 14 15 | 21 22 23 ~~24~~ 25 | ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ | L ~~M~~ S | ~~1~~ 2 3 | 5.70 | [redacted] ~~S~~ T
Country | No. | Type | Functions | Sources | Effects | Controls | Remedies | Size | Status | Date

NAME: NORDFORSK
Nordic Research Council

ACRONYM:

See also

ADDRESS: Lonnrotsgatan 37,
HELSINKI 18.
• A & WP only; other depts in Stockh'm

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.Fil.	Nils Mustelin	technical secretary
Dr.Phil	Knud Hansen	DK (Dansk Kedelforening)
	A. Laamanen	SU (Ind. Hyg. Inst.)
Dr.	B. Ottar	N (N I L U)
Byråsjef	Göran Persson	S (Naturvårdsverket)

AP aims and actions:

To inform and prepare a common approach on problems of AP, by identifying pollutants and the damage they do and by defining what can be done to reduce emissions and achieve better dispersion.
Has published 'Miljövårds-utredning' (Environmental Conservation Outline).

Comments:

Technical, not political body.
Many areas besides AP.

X.016 Nordforsk

9.69

			A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME:

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

			A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3		S T
Country	No.	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date	

NAME:

ACRONYM:

See also

ADDRESS:

Tel.:

AFFIL:

Title	PERSONNEL	Function

AP aims and actions:

Comments:

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
X [redacted]	020	ASN	A [✓ B] C D E [✓ F]	01 02 [✓ 03] 04 05	11 12 13 14 15	21 22 23 24 25	31 32 [✓ 33] [✓ 34] [✓ 35]	[✓ L] M S	1 [✓ 2] 3	5.70	[redacted]	S T

NAME: EUROPEAN FEDERATION OF CHEMICAL ENGINEERING

Working Party on AP

ACRONYM: E F C E

See also

ADDRESS: The Inst. of Chem. Engrs,
16 Belgrave Square,
LONDON SW 1.

Tel: (01) 235.3647

AFFIL:

Title	PERSONNEL	Function
Mr.	F. E. Ireland	chairman
Dr.	D. Gall	secretary

AP aims and actions:

To identify and examine AP problems arising from chemical process industries.

To study available means of controlling emissions of noxious or offensive constituents present in exhaust gases from such processes.

Comments:

X.020 European Federation of Chemical Engineering 5.70

Country	No	Type	Functions	Sources	Effects	Controls	Remedies	Size	Status	Date		
X [redacted]	021	ASN	A B C D E F	01 02 03 04 05	11 12 13 14 15	21 22 23 24 25	31 32 33 34 35	L M S	1 2 3	6.70	[redacted]	S [✓ T]

NAME: INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

Special Cttee on Problems of the Environment

ACRONYM: I C S U

See also

ADDRESS: 7 via Cornelio Celso,
I-00161 ROMA.

Tel: 862.555

AFFIL:

Title	PERSONNEL	Function
Mr.	F.W.G. Baker	Executive Secretary

AP aims and actions:

To consider those problems of the environment towards the solution of which the scientific competence represented by the ICSU can be effectively applied.

Comments:

Cooperates with UNESCO (X.007).

Committee not yet fully constituted; first meeting scheduled for Sept. 1970 in Madrid.

X.021 International Council of Scientific Unions 6.70

X [redacted] 022 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 9.69 [redacted] S X
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: Stichting CONCAWE *
Oil Industry Study Gp. for Clean Air and Water in W. Europe

ACRONYM: CONCAWE *
See also

ADDRESS: President Kennedylaan 21,
's-GRAVENHAGE 2102,
The Netherlands.

Tel.: (070) 32.17.93

AFFIL: most oil co's in W. Europe.

Title	PERSONNEL	Function
Mr.	E.H.Hubbard	gen. secretary
Dr.	P.C.Blokker	tech. secretary
Mr.	W.C.Hopper	

AP aims and actions:

Study, recommendations and organisation of joint research by and for its members.
Collection and organisation of information pertaining to the pollution potential of oil transportation, refining and marketing operations.
Support of selected (mainly university) research.

Comments:

Set up by major oil refining co's as an international study group
* for the CONservation of Clean Air and Water in W. Europe.

X.022 Stichting CONCAWE 6.69

X [redacted] 023 ASN A B C D E F 01 02 03 04 05 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 L M S 1 2 3 5.70 [redacted] S X
Country No. Type Functions Sources Effects Controls Remedies Size Status Date

NAME: INTERNATIONAL UNION OF AIR POLL'N PREVENTION ASSOCIATIONS

ACRONYM: I U A P P A
See also

ADDRESS: c/o National Society for
Clean Air,
Field House,
Breams Buildings,
LONDON EC 4.

Tel.:

AFFIL:

Title	PERSONNEL	Function
Dr.	C. Barthel	President
Mr.	A. Arch	Secretary

AP aims and actions:

To promote collaboration and the exchange of information on AP problems, and to organise, through its member associations, international congresses.

Comments:

Membership limited to one representative body from each country (when founded, was to be non-governmental; now wider).
Founder members from Europe: NSCA (GB.101), VDI (D.021), APPA (F.051)

X.023 International Union of AP Prevention Associations 5.70

IV. CUMULATIVE CROSS-INDEX
BY COUNTRY, CATEGORY,
AND SERIAL NUMBERS.

II

CUMULATIVE CROSS INDEX BY COUNTRY, CATEGORY[a], AND SERIAL NUMBER

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[a] See text Tables 1 and 3 for explanation of codes.

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